AECOM Environment

Prepared for:
Superfund Standby Program
NYSDEC
Albany, NY

Prepared by:
AECOM
Chestnut Ridge, NY
60135736
January 2012

Groundwater Sampling Report (May 2011 Sampling Event) ServAll Laundry Site Site #1-52-077 Work Assignment No. D004445-14.3

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Contents

1.0 Introduction 1-1

2.0 Background Information 2-1

3.0 Field Activities 3-1

3.1 Water Level Survey 3-1

3.2 May 2011 Groundwater Sampling Event 3-1

4.0 Sampling Results 4-1

4.1 Volatile Organic Compounds 4-1

4.2 TAL Metals 4-3

4.3 Filtered versus Unfiltered Metals Samples 4-7

4.4 Round 5 (May 2011) Data Quality Review 4-8

4.4.1 Round 5 Volatile Organic Compound Data Quality 4-8

4.4.2 Round 5 Metals Data Quality 4-8

5.0 Summary and Recommendations for Future Site Remediation Activities 5-1

5.1 Summary of VOCs 5-1

5.2 Summary of TAL Metals 5-3

5.3 Future Recommendations 5-4

List of Tables

Table 1 Monitoring Well Data

Table 2 Groundwater Elevations

Table 3 Periodic Sampling – 2006 through 2011 Sampling Events, Summary of VOCs in Groundwater

Table 4 Periodic Sampling – 2006 through 2011 Sampling Events, Summary of TAL Metals in Groundwater

Table 5 Comparison of Filtered and Unfiltered Sample Data for Metals in Groundwater

Table 6 Field Duplicate Data – Volatile Organic Compounds in Groundwater

Table 7 Field Duplicate Data – TAL Metals in Groundwater

Table 8 Summary of Historic Tetrachloroethene Concentrations in Selected Monitoring Wells

List of Figures

Figure 1 Site Location Map

Figure 2 Monitoring Well Location Map

Figure 3 Groundwater Contour Map – May 9, 2011

Figure 4 Summary of VOCs in Groundwater

Figure 5 Tetrachloroethene Concentrations in Selected Monitoring Wells

Figure 6 Trichloroethene Concentrations in Selected Monitoring Wells

Figure 7 Cis-1,2-Dichloroethene Concentrations in Selected Monitoring Wells

Figure 8 Summary of TAL Metals in Groundwater

Figure 9 Historic PCE Concentrations in Selected Monitoring Wells

Figure 10A PCE Isoconcentration map, June 2006

Figure 10B PCE Isoconcentration map, November 1010

Figure 10C PCE Isoconcentration Map, May 2011

Figure 11A Cadmium in Groundwater Isoconcentration map, November 2008

Figure 11B Cadmium in Groundwater Isoconcentration Map, May 2011

Figure 12 Cadmium Concentrations in Selected Monitoring Wells

List of Appendices

Appendix A NYSDEC Monitoring Well Field Inspection Logs

Appendix B Monitoring Well Sampling Forms

Appendix C Laboratory Data Summary Packages (Form 1s)

1.0 Introduction

AECOM Technical Services Northeast, Inc (AECOM) has prepared this Groundwater Monitoring Report for the ServAll Laundry site (Site) in the Bay Shore, New York (Site No. 1-52-077). This work was performed for the New York State Department of Environmental Conservation (NYSDEC) under Work Assignment D004445-14.3. As part of the long-term monitoring plan for the Site, groundwater samples are collected from selected monitoring wells once every five quarters. This groundwater monitoring report provides the results of the groundwater sampling data collected in May 2011.

To date, five sampling events have been conducted under AECOM's long-term monitoring work assignment:

- The first round of samples (Round 1) was collected in June 2006.
- A abbreviated round of groundwater sampling (Round 1A) was conducted in April 2007 to confirm the concentration of tetrachloroethene (PCE) detected in monitoring well MW-6A; samples were collected from monitoring wells MW-4, MW-5, MW-6A and MW-6B.
- The second full round of samples (Round 2) was collected in August 2007.
- The third full round of samples (Round 3) was collected in November 2008.
- The fourth round of samples (Round 4) was collected in February 2010.
- The fifth round of samples (Round 5) was collected in May 2011.

2.0 Background Information

The Site is located at 8 Drayton Avenue in Bay Shore, New York (Figure 1) in a mixed use industrial/residential area. The ServAll Laundry facility was located on a 20,000 square foot property. The ServAll Uniform Rental, Inc. operated as a commercial laundry from 1969 to 1972, and as dry cleaner/laundry from 1972 to 1984. During this time, unknown quantities of wash water overflow containing PCE and heavy metals were pumped to, and occasionally overflowed from, onsite cesspools.

In 1978 and 1983, the Suffolk County Department of Health Services (SCDHS) conducted an on-site sampling of cesspools and storm drains. Results from some of the samples showed detections of PCE, trichloroethene (TCE), vinyl chloride (VC), chloroform, methylbenzenes, and a number of TAL metals. As indicated in the Record of Decision (ROD) (NYSDEC, 1992), ServAll Uniform cleaned the on-site storm drains and an unknown number of cesspools in 1981 removing sludge and contaminated water. In 1983, SCDHS performed an investigation in which a VOC plume was located southeast of the Site. The plume was found to extend 0.3 miles upgradient from the Suffolk County Water Authority (SCWA) Thomas Avenue Wellfield (located 1 mile south of the site). Subsequently, in 1984 the area behind the building was backfilled and paved over. The US Geological Survey (USGS) drilled and sampled a second series of wells in 1987 to better define the ServAll plume profile. The distal end of the plume was estimated at that time to be approximately 100 feet south of the Thomas Avenue Wellfield.

A State-funded RI/FS was completed at the site, in which field work was completed from November 1990 through December 1991. The results of the investigation were documented in the final report dated January 1992 (E.C. Jordon Co.). The remedial investigation (RI)/feasibility study (FS) confirmed the presence of 1,2-dichloroethene (1,2-DCE), dichloroethane (DCA), TCE, PCE and VC in groundwater; delineated the groundwater plume, and quantified on-site contamination. Target clean-up levels for groundwater were set equal to New York State's groundwater quality standards. Surface soil target clean-up levels were risk-based and developed to protect a site worker exposed by direct contact and incidental ingestion. Subsurface soil target clean-up levels were developed for PCE (PCE was the only chemical that presents a risk greater than the New York State Department of Health [NYSDOH] target level of 10^{-6}).

The plume is located in the upper glacial aquifer, which consists of coarsely stratified, fine to medium sand with trace amounts of gravel, cobbles, coarse sand, and silt. The aquifer ranges in thickness from 120 feet at the site to 86 feet 1.5 miles downgradient of the Site. Groundwater flows to the southeast towards Penataquit Creek, at about 910 feet per year (fpy). The RI concluded that the plume appeared to be moving at approximately 443 to 484 fpy from 1974 to 1988, and 355 fpy since 1988 (E.C. Jordan, October 1991).

A ROD was issued by the NYSDEC for the site on March 31, 1992. The remedy presented in the ROD was in-situ source soil treatment/source area groundwater extraction. This remedy was to consist of the following components:

- Remedial Design Program;

- In-situ soil vapor/vacuum extraction;
- Groundwater extraction (plume source control: at the site and three blocks downgradient), followed by air stripping or ultraviolet/oxidation, and discharge of treated water;
- Monitoring program;
- Discharge Study conducted on the front end of the plume; and
- Institutional controls.

The following compounds were listed in the ROD as contaminants of concern (COCs):

- Surface soil – PCE and TCE
- Subsurface soil – PCE, TCE, 1,1-dichloroethene, toluene and bis(2-ethylhexyl)phthalate
- Groundwater – PCE, TCE, 1,2-DCE (total), 1,1-dichloroethene, 1,1-dichloroethane and vinyl chloride

The ROD listed the cleanup criteria for PCE in soil as 40 mg/kg. The cleanup criteria for the six groundwater COCs were set to the NYS groundwater standards of 5 µg/L, except for vinyl chloride where the target cleanup level is 2 µg/L.

The ROD stated that treatment of the entire plume emanating from the Site was not found to be practical, and therefore the selected remedy would not satisfy the statutory preference for complete treatment as a principal element. Determination of the ultimate fate of the untreated portion of the plume was determined by the ROD directed discharge study, which was conducted on the leading edge (hydraulically downgradient) of the plume.

A Discharge Study was conducted to determine the fate of the portion of the groundwater plume that the remedial alternative specified in the ROD did not address. The Discharge Study was completed by ABB Environmental Services (December, 1995). The discharge study concluded that groundwater would migrate approximately 1.3 miles from the site toward Penataquit Creek (the predicted discharge point was between piezometers PZ-94-19 and PZ-94-14 as shown on Figure 2). The Discharge Study predicted that the plume would reach Penataquit Creek by the year 2000, with maximum concentrations estimated to reach Penataquit Creek in 15 to 20 years. Modeling was done using steady-state conditions (assumed to represent average conditions). Based on the data available at the time of the Discharge Study, discharge of the plume into saltwater estuaries and the Great South Bay was considered unlikely. Additionally, the study concluded that aquatic organisms would not likely experience adverse effects from exposure to any of the expected discharge concentrations of contaminants evaluated.

The ROD specified source removal work consisting of a soil vapor extraction (SVE) system. The SVE system was in operation from the Spring of 1996 to the Spring of 1998 and removed approximately 2,800 pounds of PCE from soil on the property. Prior to the ROD being issued, additional source removal work was completed when ServAll Uniform cleaned the on-site storm drains and eight cesspools in 1984 by removing sludge and contaminated water.

The groundwater pump and treat remedial system operated from March 1998 through November 2001. Task management of plant operations was provided by NYSDEC subcontractors under various work assignments. The operation of the remedial system was terminated in November 2001 when NYSDEC determined further operations were not necessary as stated in a letter dated October 18, 2001 from NYSDEC to Earth Tech.

The ROD also called for institutional controls (ICs), including property owner notification and a private well survey for properties over the present and projected plume path as well as prohibition of new production wells in the plume area. The ROD also stated that funding for a treatment system for the Thomas Avenue Well Field is available from the Environmental Quality Bond Act (1986), assuming that monitoring shows the necessity for such installation. No further information was found regarding the necessity for implementation of this institutional control.

The site specific remedial goals as specified in the March 1992 ROD are as follows (NYSDEC, 1992):

- Soil:
    - Reduce the concentration of PCE and TCE so that the presence of these chemicals at the Site do not present an added risk of cancer of more than one in one million under the most conservative exposure scenario.
    - Reduce the concentrations of organic contaminants in soils so that, to the extent feasible, contaminants do not leach from soils and contaminant groundwater to levels above standards.
- Groundwater:
    - Reduce the concentrations of contaminants in groundwater to below NYS groundwater standards, to the extent technically feasible.

Per NYSDEC Guidance Document DER-10, site closure will be considered, when:

- Monitoring results demonstrate contaminant concentrations along the centerline of the plume have sufficiently decreased,
- The contaminant plume length has been demonstrated to be stable or shrinking; and,
- Contaminant levels in the sentinel wells have not exceeded groundwater cleanup levels at any time during the monitoring program.

Fifteen monitoring wells were identified for sampling including MW-2, MW-3A, MW-3B, MW-4, MW-5, MW-6A, MW-6B, MW-9, MW-11, MW-12, MW-13, MW-14, MW-16, MW-23S and MW-23D (see Figure 2). Monitoring wells MW-2, MW-3B, and MW-9 could not be located during the first two full sampling events (June 2006 and August 2007). MW-2 and MW-3B were located during Round 3, and these two wells have been included in subsequent sampling events; however, MW-9 cannot be located and has not been sampled in any of the five events. Monitoring well MW-11, located on the Bay Shore school athletic fields, was located but could not be sampled during the February 2010 or May 2011 sampling events. The well has been vandalized and could not be sampled.

3.0 Field Activities

The fifth sampling event occurred May 9 through 12, 2011. Sampling was conducted in accordance with the Sampling and Analysis Plan (SAP) prepared by AECOM, dated June 2007 (as part of Amendment 14.1). The SAP is comprised of the Field Sampling Plan (FSP), the Quality Assurance Project Plan (QAPP) and the Safe Work Plan (SWP). All field work was performed in Level D personnel protection.

3.1 Water Level Survey

Prior to the start of the May 2011 groundwater sampling event, water table measurements were collected from the 14 monitoring wells included in the sampling event. A summary of well data is included on Table 1. Water level measurements were recorded NYSDEC Monitoring Well Field Inspection Forms in Appendix A. A summary of groundwater elevations in selected monitoring wells is presented in Table 2. A groundwater contour map was prepared using data from the May 2011 sampling event and is presented in Figure 3. As shown on the map, groundwater flow is to the south-southeast. The gradient was calculated for the Site. North of the Southern State Parkway (near the Site), the gradient is approximately 0.0010. At the southern end of the study area (near the Sunrise Highway), the gradient increases to approximately 0.0014. Both of these numbers represent fairly shallow gradients.

3.2 May 2011 Groundwater Sampling Event

Fifteen monitoring wells were identified for long-term monitoring at the Site. The selected wells included MW-2, MW-3A, MW-3B, MW-4, MW-5, MW-6A, MW-6B, MW-9, MW-11, MW-12, MW-13, MW-14, MW-16, MW-23S and MW-23D. Monitoring well MW-9 could not be located in the field and is presumed destroyed, reducing the number of available wells to 14. During the first two long-term monitoring sampling events (2006 and 2007), monitoring wells MW-2 and MW-3A could not be located and were not sampled. During the November 2008 sampling event, these two wells were located and subsequently sampled. Each location was photo-documented and a hand-held GPS unit was used to record the coordinates. During the August 2007 (Round 2) sampling event, MW-11 could not be sampled due to an obstruction in the well and was not sampled during this round or in November 2008 and February 2010. During the May 2011 sampling event, MW-11 was found to be full of bottles, cans and other debris, and again could not be sampled. In summary, a total of 13 monitoring wells were sampled during the May 2011 sampling event (the 15 long-term monitoring wells, less MW-9 and MW-11).

A Grundfos electric submersible pump with polyethylene tubing was used to purge each monitoring well prior to sampling. Monitoring wells were purged of at least three casing volumes of water prior to sampling. Measurements of pH, specific conductance, temperature and turbidity were recorded on the Well Sampling Forms during purging. Well Sampling Forms are provided in Appendix B. A NYSDEC Monitoring Well Field Inspection Log was also completed for each well sampled and is included in Appendix A. Once the minimum volume of water had been evacuated, a dedicated Teflon bailer was used to collect a groundwater sample. The sample was carefully poured into laboratory supplied containers and placed in an ice-filled cooler. Both unfiltered and filtered metals samples were collected during the Round 5 sampling event. Samples were filtered in the field using 0.45 micron filters. The samples were then transported to Spectrum Analytical (formerly Mitkem) via their

courier. Proper chain-of-custody procedures and requirements were maintained throughout the sampling event in accordance with the QAPP.

4.0 Sampling Results

Groundwater samples were analyzed by Spectrum Analytical (formerly Mitkem Laboratory) of Warwick, Rhode Island. Samples were analyzed for volatile organic compounds (VOCs) using SW-846 Method 8260B and for target analyte list (TAL) metals by SW-846 Method 6010B and Method 7470A for mercury. Data packages consisted of a full NYS ASP Category B deliverable. As this is a long-term monitoring project, data was not validated. An AECOM chemist provided a limited review of the data packages for completeness and readily apparent anomalies (see section 4.4, below). The laboratory Data Summary Packages are in Appendix C.

A summary of the VOC detections and criteria exceedances is presented in Table 3 and the metals data and exceedances are shown on Table 4. A summary of the VOC exceedances is presented on Figure 4 and the metals exceedances are shown on Figure 8. The sampling results are described below in Sections 4.1 and 4.2.

4.1 Volatile Organic Compounds

VOC data for the five long term sampling events are summarized in Table 3. VOCs exceedances are shown on Figure 4. During the five sampling events conducted to date, 17 target analyte list VOCs have been detected in the long term monitoring wells. Of these 17 compounds, only eight have exceeded their Class GA criterion. Of these eight compounds, only three, cis-1,2-DCE, TCE and PCE, have been detected three or more times in any one monitoring well; these three compounds are COCs as listed in the ROD (NYSDEC, 1992). Summaries of detections for these three compounds are presented in Figure 5 (PCE), Figure 6 (TCE) and Figure 7 (cis-1,2-DCE). On each of these three figures, monitoring wells were selected based on the presence of the COC at or above its criterion. As shown on Figure 5, PCE has been detected in seven monitoring wells at or above the 5 µg/L criterion. TCE concentrations have only exceeded the 5 µg/L criterion in three monitoring wells as shown on Figure 6. Cis-1,2-DCE concentrations have only exceeded the 5 µg/L criterion in three monitoring wells as shown on Figure 7. The three other groundwater COCs, 1,1-DCE, 1,1-DCA and vinyl chloride, have not been detected above the criterion in any monitoring well during the long-term sampling (2006 through 2011).

VOCs were not detected in monitoring wells MW-3A, MW-3B, and MW-4 during any of the five long-term monitoring sampling events conducted at the ServAll Site between 2006 and 2011. Monitoring Well MW-1 was located during the fourth sampling event. PCE was detected at a concentration of 50 µg/L (exceeding the Class GA criterion of 5 µg/L). Cis-1,2-DCE, TCE, and total xylenes were also detected but at concentrations below their Class GA criteria. MW-1 was not sampled during May 2011 sampling event.

Monitoring well MW-2 was not located until the November 2008 sampling event. Benzene was detected above the Class GA criterion of 1 µg/L in monitoring well MW-2 at an estimated concentration of 1.7 µg/L during the November 2008 sampling event. Toluene was also detected at an estimated concentration of 1.4 µg/L (below the Class GA criterion of 5 µg/L). No VOCs were detected during the February 2010 sampling event. PCE was detected at an estimate concentration of 2.1 µg/L during the May 2011 sampling event.

VOCs were not detected above the Class GA criterion during the first three sampling events (June 2006 and April and August 2007) at monitoring well MW-5. Estimated concentrations of cis-1,2-DCE (3 µg/L and 2 µg/L) were detected during the June 2006 and April 2007 sampling events (Round 1 and 1A) but have not been detected since. PCE was detected at an estimated concentration of 2 µg/L only during the August 2007 sampling event (less than the Class GA criterion of 5 µg/L). Acetone was detected at a concentration of 170 µg/L (exceeding the Class GA criterion of 50 µg/L) only during the November 2008 sampling event. 2-Butanone was detected only during the November 2008 sampling event at an estimated concentration of 38 µg/L (less than the Class GA criterion of 50 µg/L). During the Round 3 event in November 2008, toluene was detected at a concentration of 1,200 µg/L and was detected again during the February 2010 sampling event at a concentration of 230 µg/L (Class GA criterion of 5 µg/L) but was not detected in May 2011.

VOCs were not detected in monitoring well MW-6A during any of the long-term monitoring events with one exception. During the February 2010 sampling event, PCE was detected at an estimated concentration of 1.2 µg/L (Class GA criterion of 5 µg/L).

Three VOCs were detected in monitoring well MW-6B above the Class GA criteria. Cis-1,2-DCE was detected above the Class GA criterion of 5 µg/L during all five sampling events at concentrations ranging from 44 µg/L to 210 µg/L. TCE was detected above the Class GA criterion of 5 µg/L during all five sampling events at concentrations ranging from 7.3 µg/L to 85 µg/L. PCE was detected above the Class GA criterion of 5 µg/L during all five sampling events at concentrations ranging from 150 µg/L to 2,000 µg/L.

PCE was detected at a concentration of 56 µg/L in monitoring well MW-11 above its Class GA criterion of 5 µg/L during the June 2006 sampling event. An obstruction in MW-11 prevented the collection of a groundwater sample during the August 2007 sampling event. During the November 2008 sampling event, PCE was detected at a concentration of 60 µg/L and cis-1,2-DCE was detected at a concentration of 13 µg/L, both of which exceed the applicable Class GA groundwater criterion. Toluene was also detected at a concentration of 63 µg/L (greater than the Class GA criterion of 5 µg/L). Chlorobenzene and methyl tert butyl ether (MTBE) were also detected but at concentrations below the Class GA criteria. An obstruction in the well prevented collection of a sample during the February 2010 and May 2011 sampling events.

Two VOCs were detected above the Class GA criterion in monitoring well MW-12. PCE was detected during all five sampling events with concentrations ranging from an estimated 1.6 µg/L to 60 µg/L; concentrations detected in the first four sampling events exceeded the Class GA criterion of 5 µg/L. 1,2-Dichlorobenzene was detected at a concentration of 9 µg/L (Class GA criterion of 4.7 µg/L) during the June 2006 sampling event only. Several compounds, including MTBE, cis-1,2-DCE, TCE and chlorobenzene, have been sporadically detected in MW-12 at concentrations below their respective Class GA criteria.

At MW-13, PCE had been detected at a concentration of 5 µg/L during the June 2006 sampling event and at an estimated 1 µg/L during the November 2008 sampling event (Class GA criterion of 5 µg/L). No other VOCs were detected in monitoring well MW-13 above the Class GA criteria during the five sampling events. Several compounds, including acetone, chloroform and TCE, have been sporadically detected in MW-13 at concentrations below their respective Class GA criteria. No VOCs have been detected in MW-13 in the last two sampling events.

No VOCs were detected above the Class GA criteria in MW-14 during any of the five sampling events. PCE was detected at an estimated concentration of 2 µg/L during the August 2007 sampling event.

MTBE was detected at an estimated concentration of 1.1 µg/L during the February 2010 sampling event and at 8 µg/L during the May 2011 sampling event.

Four VOCs have been detected in monitoring well MW-16 at concentrations above the Class GA criteria during the five sampling events. PCE was detected during all five sampling events at concentrations ranging from an estimate 2 µg/L to 95 µg/L, four of which exceeded the Class GA criterion of 5 µg/L. TCE was detected in four of five sampling events at concentrations ranging from an estimated 1.1 µg/L to 16 µg/L, three of which exceeded the Class GA criterion of 5 µg/L. 1,1,1-Trichloroethane (1,1,1-TCA) was detected in two of five sampling events at concentrations of 5 µg/L and 2.8 µg/L, (Class GA criterion of 5 µg/L). Cis-1,2-DCE was detected during four of the five sampling events at concentrations ranging from an estimated 2.1 µg/L to 16 µg/L, three of which exceeded the Class GA criterion of 5 µg/L. Three other VOCs, including MTBE, 1,1-dichloroethene, and vinyl chloride, have been sporadically detected in samples from MW-16 but at concentrations below their Class GA criteria.

Three VOCs have been detected in monitoring well MW-23S above the Class GA criteria. Cis-1,2-DCE was detected above the Class GA criterion of 5 µg/L during all five sampling events at concentrations ranging from 38 µg/L to 360 µg/L. TCE was detected above the Class GA criterion of 5 µg/L during all five sampling events at concentrations ranging from 15 µg/L to 220 µg/L. PCE was detected above the Class GA criterion of 5 µg/L during all five sampling events at concentrations ranging from 500 µg/L to 5,200 µg/L. Four other VOCs, including 1,1-dichloroethane, trans-1,2-dichloroethene, MTBE, and 1,1,1-TCA, have been sporadically detected in samples from MW-23S at concentrations below their respective Class GA criterion.

PCE has been detected during all five sampling events at MW-23D at concentrations ranging from an estimated 4 µg/L to 25 µg/L, four of which exceeded the Class GA criterion of 5 µg/L. TCE and cis-1,2-DCE were detected in MW-23D at concentrations below the Class GA criteria only during Round 5.

4.2 TAL Metals

Groundwater samples were collected from 13 monitoring wells during the May 2011 sampling event. As noted earlier, well MW-9 has been destroyed, and MW-11 was vandalized rendering it inaccessible during this event. Monitoring well MW-1 was only sampled during the March 2010 sampling event. The monitoring well locations are presented on Figure 2. The laboratory data summary packages are included in Appendix C. A summary of the detections from all three sampling events is presented in Table 4. A summary of the exceedances from all five sampling events is presented on Figure 8.

Concentrations of 11 metals have been detected above their Class GA criteria at least once during the five rounds of groundwater sampling at the Site. These metals are antimony, beryllium, cadmium, chromium, copper, iron, lead, manganese, nickel, sodium, and thallium.

Antimony – Class GA criterion of 3 µg/L

June 2006 – Detected in five of 12 monitoring wells. One exceedance: 6.3 µg/L in MW-13.

April 2007 – Detected in three of four monitoring wells. Three exceedances, maximum 37.1 µg/L in MW-6A.

August 2007 – Detected in two of 11 monitoring wells; two exceedances: maximum 7.5 µg/L in MW-23S.

November 2008 – Detected in two of 14 monitoring wells; two exceedances: maximum of 6.2 µg/L in MW-12.

February 2010 – Not detected in any of the 14 monitoring wells sampled.

May 2011 – Not detected in any of the 13 monitoring wells sampled, filtered or unfiltered.

Beryllium – Class GA criterion of 3 µg/L

June 2006 – Detected in one of 12 monitoring wells; no exceedances.

April 2007 – Detected in one of four monitoring wells; no exceedances.

August 2007 – Detected in six of 11 monitoring wells; no exceedances.

November 2008 – Detected in two of 14 monitoring wells; no exceedances.

February 2010 – Detected in eight of 14 monitoring wells; no exceedances.

May 2011 – Detected in five of 13 unfiltered samples with one exceedance of 5.7 µg/L in MW-6B. Not detected in any of the filtered samples.

Cadmium – Class GA criterion of 5 µg/L

June 2006 – Detected in nine of 12 monitoring wells; no exceedances.

April 2007 – detected in all four monitoring wells; no exceedances.

August 2007 – Detected in all 11 monitoring wells. One exceedance: 48.1 µg/L in MW-13.

November 2008 – Detected in all 14 monitoring wells. Five exceedances: maximum of 53.6 µg/L in MW-13.

February 2010 – Detected in 11 of 14 monitoring wells. Three exceedances: maximum of 43.7 µg/L in MW-2.

May 2011 – Detected in ten of 13 monitoring wells (unfiltered) and in three of 13 filtered samples. Three unfiltered exceedances: maximum of 96.4 µg/L (MW-13); one filtered exceedance, 77 µg/L in MW-13.

Chromium – Class GA criterion of 50 µg/L

June 2006 – Detected in all 12 monitoring wells. Eight exceedances: maximum of 1,660 µg/L in MW-16.

April 2007 – Detected in all four monitoring wells. Four exceedances, maximum 1,280 of µg/L in MW-06A

August 2007 – Detected all 11 monitoring wells. Nine exceedances: maximum of 1,730 µg/L in MW-12.

November 2008 – Detected in 12 of 14 monitoring wells. Nine exceedances: maximum of 1,170 µg/L in MW-12.

February 2010 – Detected in 11 of 14 monitoring wells. Eleven exceedances: maximum of 901 in MW-3B.

May 2011 – Detected in all 13 unfiltered monitoring well samples and nine of 13 unfiltered samples. Eleven exceedances in unfiltered samples, maximum of 1,520 µg/L (MW-6B), no exceedances in filtered samples.

Copper – Class GA criterion of 200 µg/L

June 2006 – Detected in 11 of 12 monitoring wells; no exceedances.

April 2007 – Detected in all four monitoring wells; no exceedances.

August 2007 – Detected all 11 monitoring wells; no exceedances.

November 2008 – Detected in 11 of 14 monitoring wells; no exceedances.

February 2010 – Detected in all 14 monitoring wells; no exceedances.

May 2011 – Detected all 13 unfiltered monitoring well samples and five of 13 unfiltered samples. One exceedance of 500 µg/L in unfiltered sample MW-6B; no exceedances in filtered samples.

Iron – Class GA criterion of 300 µg/L

June 2006 – Detected in 12 of 13 monitoring wells. Ten exceedances: maximum 7,270 µg/L in MW-16.

April 2007 – Detected in all four monitoring wells. Four exceedances: maximum 6,330 in MW-6A.

August 2007 – Detected in all 11 monitoring wells. Ten exceedances: maximum 9,130 µg/L in MW-6B.

November 2008 – Detected in all 14 monitoring wells. 13 exceedances: maximum 49,400 µg/L in MW-5.

February 2010 – Detected in all 14 monitoring wells. 13 exceedances: maximum of 28,500 in MW-6B.

May 2011 – detected in all 13 unfiltered monitoring well samples and six of 13 filtered samples. 13 unfiltered exceedances, maximum of 146,000 µg/L in MW-6B, two filtered exceedances, maximum of 31,100 µg/L in MW-5.

Lead – Class GA criterion of 25 µg/L

June 2006 – Detected in eight 12 monitoring wells; no exceedances.

April 2007 – Detected in all four monitoring wells; no exceedances.

August 2007 – Detected in eight of 11 monitoring wells; no exceedances.

November 2008 – Detected in 11 of 14 monitoring wells. Two exceedances: maximum of 33.1 µg/L in MW-3A.

February 2010 – Detected in ten of 14 monitoring wells. Four exceedances: maximum of 83.9 µg/L in MW-6B.

May 2011 – Detected in 11 of 13 unfiltered samples. Four exceedances: maximum of 316 µg/L in MW-6B. Not detected in any of the 13 filtered samples.

Manganese – Class GA criterion of 300 µg/L

June 2006 – Detected in all 12 monitoring wells. Three exceedances: maximum of 7,140 µg/L in MW-6A.

April 2007 – Detected in all four monitoring wells. Three exceedances: maximum of 3,890 µg/L in MW-6A.

August 2007 – Detected in all 11 monitoring wells. Six exceedances: maximum of 6,140 µg/L in MW-6A.

November 2008 – Detected in all 14 monitoring wells. Ten exceedances: maximum 3,250 µg/L in MW-6A.

February 2010 – Detected in all 14 monitoring wells. Eight exceedances: maximum of 2,580 µg/L in MW-3A.

May 2011 – Detected in all 13 unfiltered samples. Nine exceedances: maximum of 1,540 µg/L in MW-4. Detected in 11 of 13 filtered samples. Four exceedances, maximum of 1,130 µg/L in MW-23S.

Nickel – Class GA criterion of 100 µg/L

June 2006 – Detected in all 12 monitoring wells. Four exceedances: maximum of 1,290 µg/L in MW-12.

April 2007 – Detected in all four monitoring wells. Three exceedances: maximum of 565 µg/L in MW-4.

August 2007 – Detected in all 11 monitoring wells. Five exceedances: maximum of 1,130 µg/L in MW-6A.

November 2008 – Detected in 13 of 14 monitoring wells. Five exceedances: maximum 1,860 µg/L in MW-4.

February 2010 – Detected in all 14 monitoring wells. Three exceedances: maximum of 452 µg/L in MW-13.

May 2011 – Detected in all 13 unfiltered samples. Four exceedances: maximum of 345 µg/L in MW-13. Detected in 12 of 13 filtered samples. One exceedance of 309 µg/L in MW-13.

Sodium – Class GA criterion of 20,000 µg/L

June 2006 – Detected in all 12 monitoring wells. Eight exceedances: maximum 129,200 µg/L in MW-3A.

April 2007- Detected in all four monitoring wells. Three exceedances: maximum 39,600 µg/L in MW-6A

August 2007 – Detected in all 11 monitoring wells. Eight exceedances: maximum 43,300 µg/L in MW-5.

November 2008 – Detected in all 14 monitoring wells. Eight exceedances: maximum 59,000 µg/L in MW-5.

February 2010 – Detected in all 14 monitoring wells. 13 exceedances: maximum 92,200 µg/L in MW-6A.

May 2011 – Detected in all 13 unfiltered and filtered samples. Ten exceedances in both unfiltered and filtered samples: maximum of 133,000 in MW-3A (unfiltered), 128,000 µg/L in MW-3A (filtered).

Thallium – Class GA criterion of 0.5 µg/L

June 2006 – Detected in seven of 12 monitoring wells. Seven exceedances: maximum 32.3 µg/L in MW-6A.

April 2007 – Not detected in any of the four monitoring wells.

August 2007 – Detected in one of 11 monitoring wells, one exceedance 2.8 µg/L in MW-14.

November 2008 – Not detected in any of the 14 monitoring wells.

February 2010 – Detected in three of 14 monitoring wells. Three exceedances: maximum 16.7 in MW-3A.

May 2011 – Not detected in any of the 13 unfiltered or filtered monitoring well samples.

4.3 Filtered versus Unfiltered Metals Samples

Concentrations of total metals in groundwater samples at the Site tended to be highly variable between different sampling events, as did field measurements of turbidity at the time of sample collection. Turbidity is typically correlated with the presence of suspended matter (e.g., entrained soil particles in the sample). Therefore, both total metals (unfiltered) samples and dissolved metals (field filtered) groundwater samples were collected as part of the May 2011 sampling even to evaluate the effect of turbidity on the metals concentrations – only unfiltered samples were collected during sampling events prior to May 2011.

The NYSDEC criterion for groundwater samples is to develop the well to a turbidity of 50 nephelometric turbidity units (NTU) or less (NYSDEC, 1988). At the ServAll Laundry Site, the turbidity was below 50 NTU at the time of sampling in 12 of the 13 samples; the turbidity in MW-23S was 57 NTU (see the bottom row of Table 5). The turbidity was less than 10 NTU in six of the samples, and between 11.8 and 33.2 NTU in the other six.

Table 5 presents a comparison of the total metals and the dissolved metals data for the 13 filtered/ unfiltered sample pairs collected at the ServAll Site. The “percent dissolved” shown on the table is the ratio of the filtered sample concentration to the total (unfiltered) sample concentration. In order to calculate a value where a metal was not detected in the filtered sample, a value of “0” is used on the table (rather than “ND”). Metals which were not detected in any Round 5 sample – antimony, selenium, silver, and thallium – are not shown on Table 5.

It was expected that the total metals concentrations would tend to be higher in the more turbid samples; and that there would be only small differences between the total metals and dissolved metals concentrations in samples with low turbidity. However, this was not the case. As expected, concentrations of metals that typically exist primarily in the dissolved phase (sodium, potassium, and calcium) were generally similar in the filtered and unfiltered samples, regardless of the sample turbidity. (However, there were five samples in which the calcium concentration was 20 to 45 percent lower in the filtered sample, relative to the unfiltered sample.) The highest concentration of iron detected at the Site (146,000 µg/L in MW-6B) was in a sample with low turbidity (3.7 NTU); and the concentrations of manganese, chromium, copper, and lead detected in the unfiltered sample at MW-6B were among the highest of any Round 5 groundwater sample at the Site. However, despite the low turbidity of the unfiltered sample, concentrations of these metals, and most other metals, were significantly lower in the filtered sample; nine metals which were detected in the unfiltered sample (including iron) were not detected in the filtered sample. A similar pattern of significantly lower concentrations of iron, chromium, manganese, and copper was also observed in the two samples with the lowest turbidity (0.9 NTU in the unfiltered samples at MW-4 and MW-14). On the other hand, in the unfiltered sample with the highest turbidity (57 NTU in MW-23D), the iron concentration (637 µg/L) was one of the lowest detected in an unfiltered sample, and reductions in the concentrations of metals in the filtered sample were not noticeably greater than that seen in samples with much lower turbidity.

As discussed above, the concentrations of some metals were expected to be similar in both the unfiltered and filtered samples, and for the most part, that was the case. Other metals showed consistently large decreases in the filtered samples. Aluminum was detected in all 13 samples at concentrations from 353 to 80,900 µg/L, but was not detected in 11 of the filtered samples, and in the other two samples the dissolved concentration was less than 1 percent of the filtered sample concentration. Concentrations of beryllium, copper, chromium, lead, mercury, and vanadium also showed a similar pattern (not detected or detected at much lower concentrations in the filtered samples). Iron generally followed this pattern, with the exception of MW-5 (dissolved concentration only 17 percent less than the total concentration) and MW-16 (dissolved concentration about 50 percent of the total iron concentration). The ratio of dissolved to filtered concentrations was variable for a number of metals, such as barium (7 to 83 percent), cadmium (0 to 80 percent), cobalt (0 to 74 percent), manganese (0 to 82 percent), nickel (0 to 89 percent), and zinc (1.6 to 84.8 percent).

4.4 Round 5 (May 2011) Data Quality Review

In accordance with the project plans, data generated for this investigation were not subject to formal validation. However, AECOM's quality assurance officer (QAO) reviewed the data for reasonableness and the presence of any anomalies, including issues identified by the laboratory in the case narrative, and other items noted in review of shipping and handling documentation, inconsistencies with previous data, and review of the laboratory QA forms. The QAO also reviewed the field duplicate data.

4.4.1 Round 5 Volatile Organic Compound Data Quality

Samples from 13 monitoring wells were prepared by SW-846 method 5030C and analyzed for target compound list (TCL) VOCs by SW-846 method 8260C and reported as sample delivery group (SDG) K0834. One trip blank was collected and submitted for VOC analysis. As samples were collected in dedicated Teflon bailers, field rinsate blank samples were not required, as specified in the site-specific SAP (Earth Tech, 2007). Sample SLMW-4 was designated as the QC sample (matrix spike and spike duplicate analysis) for the Round 5 sampling event. Samples were picked up by a Mitkem courier on May 12 received in good condition at the lab on May 13, 2011. Samples were properly preserved (pH ≤ 2) and properly cooled (temperature between 0 and 6° C).

Laboratory QC limits were met for initial and continuing calibrations, blanks, surrogates, internal standards, laboratory control sample (LCS) recovery, matrix spike recovery, and matrix spike duplicate precision. No target or non-target compounds were detected in the trip blank.

One filtered/unfiltered site-specific field duplicate groundwater sample pair (SMW-12/ SMW-62) was collected for VOC analysis from the ServAll site in Round 5. Precision for the field duplicate (see Table 6) was very good both qualitatively (the same three target compounds were detected in the sample and the duplicate and qualitatively (even at the low concentrations detected – less than 2 µg/L – all relative percent differences [RPDs] were less than 12 percent). Due to high concentrations (exceeding the calibration range) of one target compound (PCE), one sample (MW-23S) required dilution (at a dilution factor of 16). The result from the dilution analysis is shown for PCE (flagged "D"); for all other analytes, the tabulated data are from the undiluted (initial) analysis.

4.4.2 Round 5 Metals Data Quality

Filtered and unfiltered groundwater samples were collected from 13 monitoring wells on May 10, 11, and 12 and received in good condition by the laboratory (Spectrum Analytical [formerly Mitkem], Warwick RI) on May 13, 2011. Filtered and unfiltered samples were analyzed for target analyte list

(TAL) metals by SW-846 method 6010C (mercury by SW-846 7470A) and reported as sample delivery group (SDG) K0834. Somewhat confusingly, the laboratory did not assign unique numbers differentiating between the filtered and unfiltered samples at each location; rather, the laboratory reported the results in two sub-SDGs, K0834 for the total metals, and K0834-D for the dissolved metals. As samples were collected in dedicated Teflon bailers, field rinsate blank samples were not required, as specified in the site-specific SAP (Earth Tech, 2007). Sample SLMW-4 (filtered and unfiltered) (unfiltered) were designated as the QC samples (spike and duplicate analysis) for the Round 5 sampling event.

Laboratory QC limits were met for initial and continuing calibrations, blanks, laboratory control sample (LCS) recovery, post-digestion spikes, laboratory duplicate precision, and serial dilutions for the filtered (dissolved metals) samples. Laboratory QC limits were generally met for the total metals except that spike recovery criteria were not met for one metal, mercury (slightly high recovery of 127 percent, exceeding the criterion of 75-125 percent recovery) and the serial dilution for nickel. As a result, the total mercury data are flagged “N” (spike recovery not within limits) and the total nickel data are flagged “E” (estimated concentration due to interference). No unusual occurrences were noted by the laboratory during the analysis of filtered or unfiltered samples from either SDG.

One filtered/unfiltered site-specific field duplicate groundwater sample pair (SMW-12U and 12F/SMW-62U and 62F) was collected from the ServAll site in Round 5. Precision for the field duplicates (see Table 7) was generally good. In the unfiltered sample pair, relative percent difference (RPD) ranged from 0.1 to 88.8 percent, with a median RPD of 31 percent, for the 15 detected metals. The high RPD values (greater than 30 percent) were all in samples in which the metals were primarily in the suspended phase (i.e., the metal was not detected, or detected at a much lower concentration, in the filtered sample). Precision was very good in the filtered duplicate pair for the nine detected metals, with RPDs ranging from 0.3 to 15 percent.

The filtered/unfiltered data pairs (see Table 5) were reviewed for anomalies, using the USEPA Region II metals validation criteria (USEPA HW-2, revision 13; USEPA, 2006). Based on these criteria, if the dissolved (unfiltered sample) result exceeds the total (unfiltered) sample by more than 20 percent, the accuracy of the quantitation is suspect (i.e., the data would be flagged “J”, for estimated), and if the filtered sample result exceeds the unfiltered sample result, the data may be unusable (flagged “R”, rejected). There were no exceedances of the 20 percent threshold in any of the 13 Round 5 filtered/unfiltered sample pairs analyzed.

5.0 Summary and Recommendations for Future Site Remediation Activities

5.1 Summary of VOCs

No VOCs were detected in monitoring wells MW-3A, MW-3B, and MW-4 in any of the five sampling events. Monitoring well MW-2 was sampled for the first time during November 2008 and a slight exceedance of benzene was noted; no VOCs were detected in MW-2 in February 2010. A low concentration of PCE (2.1 µg/L, less than the Class GA criterion) was detected in MW-2 in the May 2011 sample. No VOCs were detected in MW-6A in the first three sampling events (plus the confirmation event). A low concentration of PCE (1.2 µg/L, less than the Class GA criterion) was detected in February 2010; no VOCs were detected in MW-6A in May 2011. Concentrations of detected VOCs were below the NYSDEC Class GA Groundwater Criteria in monitoring wells MW-5 (excluding the acetone and toluene as discussed in section 4.1) and MW-14. No VOCs detected in MW-5 or MW-14 exceeded Class GA criteria in samples collected in May 2011.

PCE was detected at the Class GA criteria in monitoring well MW-13 during the June 2006 sampling event, but has not exceeded the criterion for the last four sampling events. VOCs concentrations at monitoring well MW-16 have exceeded criteria during four of the five sampling events. PCE concentrations at MW-23D were below the criterion during the June 2006 sampling event but were above the criterion during the last four sampling events (August 2007 through May 2011). PCE was detected at a concentration greater than the GA criterion in MW-1 in the February 2010 sampling event, the only time MW-1 was sampled.

Five VOCs were detected at concentrations above their Class GA criteria in one or more of monitoring wells MW-6B, MW-11, MW-12, and MW-23S. These exceedances included cis-1,2-DCE, 1,1,1-TCA, TCE, PCE, and 1,2 dichlorobenzene during the June 2006, April 2007, August 2007, November 2008, February 2010, and May 2011 sampling events.

Concentrations of cis-1,2-DCE (Class GA criterion of 5 µg/L) were highest in monitoring wells MW-6B and MW-23S. 1,1,1-Trichloroethane (Class GA criterion of 5 µg/L) was detected at a concentration of 5 µg/L in monitoring well MW-16 during the June 2006 sampling event; 1,1,1-TCA was detected in MW-16 (2.8 µg/L) and MW-23S (1.3 µg/L) in February 2010 at concentrations less than the Class GA criterion. In May 2011, 1,1,1-trichloroethane was detected only in MW-23S at a concentration less than the Class GA criterion. Concentrations of TCE (Class GA criterion 5 µg/L) and PCE (Class GA criterion 5 µg/L) were highest in monitoring wells MW-6B and MW-23S. 1,2-Dichlorobenzene (Class GA criterion 5 µg/L) was detected in monitoring well MW-12 at a concentration of 9 µg/L during the June 2006 sampling event only.

A summary of historic PCE concentration data for selected monitoring wells is shown on Table 8. The data presented on this table is a compilation of data available for review during the preparation of this report. A graph of the historic PCE concentrations is also illustrated on Figure 9. PCE concentrations show a significant increase in monitoring wells MW-6B and MW-23S during the June 2006 event but appear to be decreasing through the two subsequent sampling events. At MW-6B, PCE concentrations had decreased through the 1990s to a low of 22 µg/L by January 1999. There was an increase noted in July 2000 to 160 µg/L followed by an order of magnitude increase in the June 2006

sampling event to 1,100 µg/L followed by a significant drop to 480 µg/L by August 2007. The concentration remained constant through the November 2008 sampling event; however, the concentration increased significantly to 2,000 µg/L in the February 2010 event but dropped significantly (to 150 µg/L) in the May 2011 event. A bar chart of the PCE concentrations at MW-6B for the five long term sampling events (2006 – 2011), is shown on Figure 5.

PCE concentrations have also significantly increased in monitoring well MW-23S. Historically, PCE concentrations at this location were less than 30 µg/L (between 1995 and 2004) and was below the Class GA criterion of 5 µg/L during the May 2004 sampling event. During the June 2006 sampling event, the PCE concentration at this location was 5,200 µg/L. The concentration has decreased significantly since that time to 1,700 µg/L in August 2007 and 500 µg/L in November 2008, and held fairly constant in the February 2010 event (590 µg/L). However, the PCE concentration rebounded to 1,500 µg/L in the May 2011 event. A bar chart of the PCE concentrations at MW-23S for the five long-term sampling events (2006 – 2011) is shown on Figure 5.

Isoconcentration maps were prepared for PCE and are shown on Figure 10A (June 2006 data), Figure 10B (November 2008 data) and Figure 10C (May 2011 data). As shown on these maps, the PCE plume appears to have separated into two non-contiguous plumes as of the May 2011 sampling event: one near the Site and a second centered near MW-23S (immediately south of the Sunrise Highway). PCE concentrations in wells near the Site appear to be decreasing as is the PCE concentration in MW-12 (adjacent to the Southern State Parkway). Further downgradient, near the Bay Shore High School, the PCE concentrations appear to be increasing at MW-16 and MW-23S.

1,1,1-TCA, PCE and its breakdown daughter products (TCE and cis-1,2-DCE) were detected in several monitoring wells in February 2010 and May 2011. Of the seven monitoring wells near the Site that were sampled (MW-2, MW-3A, MW-3B, MW-4, MW-5, MW-6A and MW-6B), the PCE concentration exceeded criteria only in shallow monitoring well MW-6B (2,000 µg/L in February 2010 and 150 µg/L in May 2011); it was not detected, or detected below the GA criterion, in the other six wells near the Site.

Three of the monitoring wells sampled as part of the long-term monitoring program are located approximately halfway between the Site and the Bay Shore Middle School (MW-12, MW-13 and MW-14) along the Southern State Parkway. PCE was detected above the criterion in MW-12, (in each event between 2006 and 2010 at, but was detected below the criterion (at 1.6 µg/L) in the May 2011 sampling event. In Round 5, PCE was not detected in monitoring wells MW-13 or MW-14, similar to previous sampling events. Of the two monitoring wells near the Bay Shore Middle School, the PCE concentrations at MW-11 were 56 µg/L and 60 µg/L for the June 2006 and November 2008 sampling events (an obstruction prevented the collection of a sample in August 2007, February 2010, and May 2011). At MW-16, the other well near the school, the concentrations of VOCs have all increased since November 2008; the concentrations of cis-1,2-DCE, TCE and PCE all exceeded the criterion. A bar chart of the PCE concentrations at MW-11, MW-12 and MW-16 for the five long-term sampling events is shown on Figure 5.

The two most downgradient wells sampled (MW-23S and MW-23D) are located near the Sunrise Highway. PCE was detected in MW-23S at a concentration of 1,700 µg/L along with high concentrations of two daughter products, TCE and cis-1,2-DCE in the August 2007 event, and PCE was detected above the criterion in MW-23D at a concentration of 6 µg/L. In two recent events (November 2008 and February 2010), concentrations of PCE, cis-1,2-DCE and TCE have decreased significantly (PCE at 500 µg/L and 590 µg/L; cis-1,2-DCE at 45 µg/L and 38 µg/L; and TCE at 18 µg/L and 15 µg/L); however, PCE concentrations rebounded to 1,500 µg/L in May 2011. A graph of the

PCE concentrations at MW-23S for the five long-term sampling events is shown on Figure 5. The PCE concentrations (other analytes being not detected) have remained fairly constant at MW-23D, with concentrations of 7.7 and 8.3 µg/L detected in November 2008 and February 2010, respectively. However, in Round 5 (May 2011) the PCE concentration spiked to 25 µg/L, and cis-1,2-DCE and TCE were detected for the first time in MW-23D, albeit at low concentrations (less than the Class GA criterion). A graph of the PCE concentrations from the five long-term sampling events at MW-23D is included on Figure 5.

5.2 Summary of TAL Metals

Of the 23 TAL metals, 11 metals have been detected at least once at concentrations above their Class GA criteria. These exceedances included antimony, beryllium, cadmium, chromium, copper, iron, lead, manganese, nickel, sodium, and thallium. Three of these metals – iron, manganese, and sodium – are naturally occurring elements in Long Island groundwater and will not be discussed further.

Antimony was detected in five wells during the June 2006 sampling event at concentrations ranging from an estimated 1.4 µg/L at MW-23D to 6.3 µg/L at MW-13, the only location where antimony exceeded the Class GA criterion of 3 µg/L. Of the four wells sampled in April 2007 (MW-4, MW-5, MW-6A and MW-6B), antimony exceeded the criterion at three locations. During the August 2007 sampling event, antimony exceeded the criterion at monitoring wells MW-23S and MW-23D. In the November 2008 event, antimony exceeded the criterion in MW-3A and MW-12. Antimony was not detected in any sample during the February 2010 and May 2011 sampling events.

Cadmium has been detected in most of the samples collected at the Site during the five long-term sampling events. Cadmium concentrations have exceeded the criterion once in monitoring wells MW-4, MW-6B and MW-23S, and twice in monitoring well MW-3A. Cadmium concentrations have consistently exceeded the criterion in two monitoring wells. Well MW-2 has been sampled in three events and exceeded the criterion each time, including the dissolved sample in May 2011. Cadmium concentrations exceeded the criterion in well MW-13 during four of five sampling events, including the dissolved sample in May 2011. Cadmium isoconcentration maps (unfiltered data) are presented in Figure 11A (November 2008) and Figure 11B (May 2011). Cadmium concentrations have consistently exceeded the criterion at MW-2 and MW-13 with the plume broken into isolated pockets. The cadmium results are also presented graphically in Figure 12.

Chromium was detected in all samples during all sampling events to date and exceeded the criterion in most of the samples. The only exceptions are MW-23S and MW-23D, where chromium concentrations have not exceeded the criterion in any sampling event. Chromium concentrations exceeded criteria in 11 unfiltered samples collected in May 2011 but no exceedances in filtered samples, even when the unfiltered sample concentrations were over 1,000 µg/L.

Nickel has exceeded the Class GA criterion of 100 µg/L at least once in ten wells: MW-2, MW-3B, MW-4, MW-5, MW-6, MW-6A, MW-6B, MW-12, MW-13, and MW-16. In the February 2010 event, nickel concentrations greater than 100 µg/L were detected in three monitoring wells (MW-3B, MW-4, and MW-13). In May 2011, nickel concentration exceeded the criterion in five unfiltered samples but only one filtered sample.

Thallium was detected at seven locations during the June 2006 sampling event, all of which exceeded the Class GA criterion of 4 µg/L. During the August 2007 sampling event, there was only one exceedance of thallium. Thallium concentrations did not exceed criteria in any sample collected in

November 2008. In February 2010, thallium concentrations exceeded criteria in MW-3A (16.7 µg/L), MW-5 (14 in µg/L), and MW-23S (8.6 µg/L). Thallium was not detected in any sample, filtered or unfiltered, in May 2011.

5.3 Future Recommendations

Future recommendations for the ServAll Laundry Site are continued monitoring of selected monitoring wells for VOCs and TAL metals. Chromium concentrations continue to exceed the criterion in most of the monitoring wells (all except MW-23S and MW-23D). However, May 2011 data from the filtered samples indicate that the high concentrations are likely a result of suspended material and are not present in the dissolved phase. Further filtered sampling will confirm this observation. Cadmium concentrations have exceeded the Class GA criterion more frequently in the last three sampling events (relative to the one exceedance in 2007 and no exceedances in 2006).

Monitoring well MW-11, located in the Bay Shore High School athletic field, has been vandalized and should be cleared of debris or properly abandoned.

Paired filtered/unfiltered groundwater sample for metals analysis were collected from all wells sampled in the May 2011 sampling event for the first time. It is recommended that at least one additional round of paired filtered/unfiltered groundwater samples be collected for comparison purposes to determine if the dissolved metals data is more reproducible over time than the total metals data; and the evaluation of filtered to unfiltered data on another data set will be useful in determining if the observations during Round 5 (May 2011) were anomalous, or are representative of site conditions.

Collect samples for total suspended solids (TSS) and total dissolved solids (TDS) from some or all of the wells during the next event. The TSS data will be useful in evaluating why there is so little apparent correlation between sample turbidity and the reduction in metals concentrations in the filtered samples. TDS data will be useful as a cross-check on the total metals concentrations between the total metals and dissolved metals data; and as a check on the representativeness of the filtered and unfiltered samples.

The next round of groundwater sampling is scheduled for August 2012.

Tables

TABLE 1
SERVALL LAUNDRY SITE (1-52-077)
MONITORING WELL DATA

Well ID	NY State Plane Coordinates[1]		Well Screen Depth (ft bgs)	Top of Riser Elevation[1]	Comments
	Northing	Easting			
MW-1	193,973.43	2,204,502.95	76.5 - 86.5	64.79	Behind Servall Building
MW-2	194,178.63	2,204,535.21	71.8 - 81.8	64.47	Well could not be located prior to the November 2008 event
MW-3A	194,188.77	2,204,423.40	110.0 - 120.0	64.37	Well could not be located prior to the November 2008 event
MW-3B	198,189.80	2,204,411.51	78.0 - 88.0	64.54	West of the building on the north side of Drayton Avenue
MW-4	193,713.55	2,204,672.09	74.0 - 84.0	63.11	On north side of Frederick Avenue
MW-5	193,738.12	2,204,418.09	74.0 - 84.0	64.06	On north side of Frederick Avenue
MW-6A	193,723.62	2,204,573.71	53.0 - 63.0	63.87	On north side of Frederick Avenue
MW-6B	193,722.77	2,204,566.29	25.0 - 35.0	63.83	On north side of Frederick Avenue
MW-7	193,247.00	2,204,841.62	102.0 - 112.0	60.79	Well appears to be missing
MW-8	192,291.45	2,205,304.27	94.0 - 104.0	54.6	Well appears to be missing
MW-9	189,214.07	2,206,683.24	78.0 - 88.0	40.91	Well appears to have been paved over or removed
MW-10	188,924.35	2,207,905.95	78.7 - 88.7	40.22	Well appears to be missing
MW-11	188,889.82	2,207,272.76	80.0 - 90.0	37.07	In grass on field at Bay Shore Middle School
MW-12	191,051.70	2,205,475.34	78.8 - 88.8	50.61	In woods along Southern State Parkway near light pole
MW-13	190,990.06	2,205,989.11	88.0 - 98.0	50.33	In woods along Southern State Parkway near light pole
MW-14	191,009.26	2,206,506.46	83.3 - 93.3	49.98	In woods along Southern State Parkway near light pole
MW-15	190,264.25	2,206,372.05	87.0 - 97.0	48.78	Well appears to be missing
MW-16	188,111.44	2,207,779.29	84.0 - 94.0	36.50	South side of Abrew Street in roadway
MW-23S	187,099.54	2,208,295.49	66.0 - 69.0	24.38	In roadway on Cul-de-sac on Perkel Street
MW-23D	187,101.72	2,208,276.17	83.0 - 88.0	24.45	In roadway on Cul-de-sac on Perkel Street

Bolded monitoring wells are severely damaged and require repairs to the road box

1 - Coordinates and elevations taken from E.C. Jordan RI/FS Report, January 1992 and ABB Plume Discharge Study, December 1995.

TABLE 2
SERVALL LAUNDRY SITE (SITE 1-52-077)
GROUNDWATER ELEVATIONS

Well #	Reference Elevation	Date	Depth To Water	Water Table Elevation	Comments
MW-1S	64.79	2/1/10	22.87	41.92	February 2010 sampling event
MW-2	64.47	6/6/06	--	--	could not locate
		8/20/07	--	--	could not locate
		11/11/08	23.82	40.65	November 2008 sampling event
		2/1/10	22.27	42.20	February 2010 sampling event
		5/9/11	23.19	41.28	May 2011 sampling event
MW-3A	64.37	6/6/06	20.68	43.69	June 2006 sampling event
		8/20/07	22.00	42.37	August 2007 sampling event
		11/11/08	23.61	40.76	November 2008 sampling event
		2/1/10	22.07	42.30	February 2010 sampling event
		5/9/11	23.02	41.35	May 2011 sampling event
MW-3B	64.54	6/6/06	--	--	could not locate
		8/20/07	--	--	could not locate
		11/11/08	23.81	40.73	November 2008 sampling event
		2/1/10	22.29	42.25	February 2010 sampling event
		5/9/11	23.20	41.34	May 2011 sampling event
MW-4	63.11	6/16/06	20.34	42.77	June 2006 sampling event
		8/20/07	21.50	41.61	August 2007 sampling event
		11/11/08	23.35	39.76	November 2008 sampling event
		2/1/10	21.77	41.34	February 2010 sampling event
		5/9/11	22.57	40.54	May 2011 sampling event
MW-5	64.06	6/15/06	20.98	43.08	June 2006 sampling event
		8/20/07	22.20	41.86	August 2007 sampling event
		11/11/08	23.99	40.07	November 2008 sampling event
		2/1/10	22.42	41.64	February 2010 sampling event
		5/9/11	23.29	40.77	May 2011 sampling event
MW-6A	63.87	6/15/06	20.93	42.94	June 2006 sampling event
		8/20/07	22.41	41.46	August 2007 sampling event
		11/11/08	24.01	39.86	November 2008 sampling event
		2/1/10	22.49	41.38	February 2010 sampling event
		5/9/11	23.28	40.59	May 2011 sampling event
MW-6B	63.83	6/15/06	20.89	42.94	June 2006 sampling event
		8/20/07	22.16	41.67	August 2007 sampling event
		11/11/08	23.95	39.88	November 2008 sampling event
		2/1/10	22.36	41.47	February 2010 sampling event
		5/9/11	23.62	40.21	May 2011 sampling event

TABLE 2
SERVALL LAUNDRY SITE (SITE 1-52-077)
GROUNDWATER ELEVATIONS

Well #	Reference Elevation	Date	Depth To Water	Water Table Elevation	Comments
MW-11	37.07	6/8/06	8.80	28.27	June 2006 sampling event
		8/20/07	6.57	30.50	August 2007 sampling event
		11/11/08	10.13	26.94	November 2008 sampling event
		2/1/10	9.13	27.94	February 2010 sampling event
		5/9/11	NA		vandalized, filled with debris
MW-12	50.61	6/15/06	14.15	36.46	June 2006 sampling event
		8/20/07	15.42	35.19	August 2007 sampling event
		11/11/08	16.74	33.87	November 2008 sampling event
		2/1/10	15.14	35.47	February 2010 sampling event
		5/9/11	15.60	35.01	May 2011 sampling event
MW-13	50.33	6/15/06	18.51	31.82	June 2006 sampling event
		8/20/07	15.87	34.46	August 2007 sampling event
		11/11/08	17.10	33.23	November 2008 sampling event
		2/1/10	15.54	34.79	February 2010 sampling event
		5/9/11	15.97	34.36	May 2011 sampling event
MW-14	49.98	6/15/06	15.01	34.97	June 2006 sampling event
		8/20/07	16.26	33.72	August 2007 sampling event
		11/11/08	17.29	32.69	November 2008 sampling event
		2/1/10	15.84	34.14	February 2010 sampling event
		5/9/11	16.25	33.73	May 2011 sampling event
MW-16	36.50	6/15/06	10.52	25.98	June 2006 sampling event
		8/20/07	12.76	23.74	August 2007 sampling event
		11/11/08	12.35	24.15	November 2008 sampling event
		2/1/10	11.52	24.98	February 2010 sampling event
		5/9/11	11.68	24.82	May 2011 sampling event
MW-23S	24.38	6/8/06	5.25	19.13	June 2006 sampling event
		8/20/07	6.22	18.16	August 2007 sampling event
		11/11/08	6.09	18.29	November 2008 sampling event
		2/1/10	5.78	18.60	February 2010 sampling event
		5/9/11	5.62	18.76	May 2011 sampling event
MW-23D	24.45	6/8/06	5.15	19.30	June 2006 sampling event
		8/20/07	6.14	18.31	August 2007 sampling event
		11/11/08	6.00	18.45	November 2008 sampling event
		2/1/10	5.62	18.83	February 2010 sampling event
		5/9/11	5.67	18.78	May 2011 sampling event

All measurements and elevations are in feet, MSL.
All measurements were taken from the top of PVC casing.

TABLE 3
SERVALL LAUNDRY SITE (SITE 1-52-077)
PERIODIC SAMPLING - 2006 THROUGH 2011 SAMPLING EVENTS
SUMMARY OF VOCs IN GROUNDWATER

Sample Location	NYSDEC	MW-1	MW-2	MW-2	MW-2	MW-2	MW-2	MW-3A	MW-3A	MW-3A	MW-3A	MW-3A
Sample ID	Class GA	SL-MW-1	Can't	Can't	SL-MW-2	SL-MW-2	SL-MW-2	SMW-3A	SMW-3A	SL-MW-3A	SL-MW-3A	SL-MW-3A
Laboratory ID	Ground	J0196-01	Locate	Locate	G2115-14	J0196-06	K0834-09	E0773-18	F1174-02C	G2115-16	J0196-02	K0834-10
Sample Date	Water	2/3/10	6/6/06	8/21/07	11/14/08	2/4/10	5/11/11	6/6/06	8/21/07	11/14/08	2/3/10	5/11/11
	Criteria	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Vinyl Chloride	2	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1	ND	NA	NA	***1.7*** J	ND	ND	ND	ND	ND	ND	ND
2-Butanone	50	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	10	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	2.3 J	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	1.8 J	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	**50**	NA	NA	ND	ND	2.1 J	ND	ND	ND	ND	ND
Xylenes (Total)	5	1.1 J	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5	ND	NA	NA	1.4 J	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	4.7	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Number of TICs					1			0	0	1		
Total TIC concentration					38 J			ND	ND	19 J		

Notes:
All values are in micrograms per liter (µg/L)
ND - Not detected
D - Dilution
J - Estimated value, VOCs
NA - Not analyzed
BOLD/ITALICS - exceeds criterion

TABLE 3
SERVALL LAUNDRY SITE (SITE 1-52-077)
PERIODIC SAMPLING - 2006 THROUGH 2011 SAMPLING EVENTS
SUMMARY OF VOCs IN GROUNDWATER

Sample Location	NYSDEC	MW-3B	MW-3B	MW-3B	MW-3B	MW-3B	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4
Sample ID	Class GA	Can't	Can't	SL-MW-3B	SL-MW-3B	SL-MW-3B	SMW-4	SMW-4	SMW-4	SL-MW-4	SL-MW-4	SL-MW-4
Laboratory ID	Ground	Locate	Locate	G2115-17	J0196-07	K0834-11	E0832-10	F0495-02B	F1174-03C	G2115-09	J0196-08	K0834-12
Sample Date	Water	6/6/06	8/21/07	11/14/08	2/4/10	5/11/11	6/16/06	4/20/07	8/21/07	11/13/08	2/4/10	5/12/11
	Criteria	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Vinyl Chloride	2	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	50	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	10	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes (Total)	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	4.7	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Number of TICs				1			0	0	0	1		
Total TIC concentration				19 J			ND	ND	ND	28 J		

Notes:
All values are in micrograms per liter (µg/L)
ND - Not detected
D - Dilution
J - Estimated value, VOCs
NA - Not analyzed
BOLD/ITALICS - exceeds criterion

TABLE 3
SERVALL LAUNDRY SITE (SITE 1-52-077)
PERIODIC SAMPLING - 2006 THROUGH 2011 SAMPLING EVENTS
SUMMARY OF VOCs IN GROUNDWATER

Sample Location	NYSDEC	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-6A	MW-6A	MW-6A	MW-6A	MW-6A	MW-6A
Sample ID	Class GA	SMW-5	SMW-5	SMW-5	SL-MW-5	SL-MW-5	SL-MW-5	SMW-6A	SMW-6A	SMW-6A	SMW-6A	SMW-6A	SMW-6A
Laboratory ID	Ground	E0832-05	F0495-04B	F1174-13B	G2115-13	J0196-09	K0834-15	E0832-06	F0495-01B	F1174-04C	G2115-10	J0196-10	K0834-13
Sample Date	Water	6/15/06	4/20/07	8/27/07	11/13/08	2/4/10	5/12/11	6/15/06	4/20/07	8/21/07	11/13/08	2/4/10	5/12/11
	Criteria	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Vinyl Chloride	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50	ND	ND	ND	***170***	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	50	ND	ND	ND	38 J	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	3.0 J	2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	1.5 J	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	2 J	ND	ND	ND	ND	ND	ND	ND	1.2 J	ND
Xylenes (Total)	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	***1,200***	***230 D***	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	4.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Number of TICs		0	0	0	1			0	0	0	1		
Total TIC concentration		ND	ND	ND	330 J			ND	ND	ND	28 J		

Notes:
All values are in micrograms per liter (µg/L)
ND - Not detected
D - Dilution
J - Estimated value, VOCs
NA - Not analyzed
BOLD/ITALICS - exceeds criterion

TABLE 3
SERVALL LAUNDRY SITE (SITE 1-52-077)
PERIODIC SAMPLING - 2006 THROUGH 2011 SAMPLING EVENTS
SUMMARY OF VOCs IN GROUNDWATER

Sample Location	NYSDEC	MW-6B	MW-6B	MW-6B	MW-6B	MW-6B	MW-6B	MW-9	MW-11	MW-11	MW-11	MW-11	MW-11
Sample ID	Class GA	SMW-6B	SMW-6B	SMW-6B	SMW-6B	SMW-6B	SMW-6B		SMW-11	SMW-11	SL-MW-11	SL-MW-11	SL-MW-11
Laboratory ID	Ground	E0832-07	F0495-03B	F1174-05C	G2115-12	J0196-11	K0834-14	Destroyed	E0773-19		G2115-01		
Sample Date	Water	6/15/06	4/20/07	8/21/07	11/13/08	2/4/10	5/12/11	6/09/06	6/8/06	8/20/07	11/11/08	2/1/10	5/10/11
	Criteria	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Vinyl Chloride	2	ND	ND	ND	ND	ND	ND		ND	NA	ND	NA	NA
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND		ND	NA	ND	NA	NA
Acetone	50	ND	ND	ND	ND	ND	ND		ND	NA	ND	NA	NA
Benzene	1	ND	ND	ND	ND	ND	ND		ND	NA	ND	NA	NA
2-Butanone	50	ND	ND	ND	ND	ND	ND		ND	NA	ND	NA	NA
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND		ND	NA	ND	NA	NA
Methyl tert-butyl ether	10	ND	ND	ND	ND	ND	ND		ND	NA	1.8 J	NA	NA
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND		ND	ND	ND	NA	NA
cis-1,2-Dichloroethene	5	***210 D***	***120***	***130***	***140***	***190***	***44***		3.0 J	NA	13	NA	NA
Chloroform	7	ND	ND	ND	2 J	ND	ND		ND	NA	ND	NA	NA
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND		ND	NA	ND	NA	NA
Trichloroethene	5	***85***	***27***	***26***	***30***	***40***	***7.3***		4 J	NA	ND	NA	NA
Tetrachloroethene	5	***1,100 D***	***650***	***480 D***	***470 D***	***2,000 D***	***150***		***56***	NA	***60***	NA	NA
Xylenes (Total)	5	ND	ND	ND	ND	ND	ND		ND	NA	ND	NA	NA
Toluene	5	ND	ND	ND	ND	ND	ND		ND	NA	***63***	NA	NA
Chlorobenzene	5	ND	ND	ND	ND	ND	ND		ND	NA	4.8 J	NA	NA
1,2-Dichlorobenzene	4.7	ND	ND	ND	ND	ND	ND		ND	NA	ND	NA	NA
Number of TICs		0	0	0	1				1		1		
Total TIC concentration		ND	ND	ND	28 J				6 J	NA	22 J		

Notes:
All values are in micrograms per liter (µg/L)
ND - Not detected
D - Dilution
J - Estimated value, VOCs
NA - Not analyzed
BOLD/ITALICS - exceeds criterion

TABLE 3
SERVALL LAUNDRY SITE (SITE 1-52-077)
PERIODIC SAMPLING - 2006 THROUGH 2011 SAMPLING EVENTS
SUMMARY OF VOCs IN GROUNDWATER

Sample Location	NYSDEC	MW-12	MW-12	MW-12	MW-12	MW-12	MW-13	MW-13	MW-13	MW-13	MW-13
Sample ID	Class GA	SMW-12	SMW-12	SL-MW-12	SL-MW-12	SL-MW-12	SMW-13	SMW-13	SL-MW-13	SL-MW-13	SL-MW-13
Laboratory ID	Ground	E0832-01	F1174-08C	G2115-06	J0189-01	K0834-01	E0832-02	F1174-07C	G2115-07	J0189-02	K0834-02
Sample Date	Water	6/15/06	8/22/07	11/12/08	2/2/10	5/10/11	6/15/06	8/22/07	11/12/08	2/2/10	5/10/11
	Criteria	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Vinyl Chloride	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50	ND	ND	ND	ND	ND	4 J	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	10	ND	ND	ND	ND	1.7 J	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	ND	2 J	3.1 J	ND	1.8 J	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	6	2.7 J	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	1 J	ND	ND	ND	3 J	ND	ND	ND	ND
Tetrachloroethene	5	***17***	***17***	***60***	***10***	1.6 J	***5***	ND	1 J	ND	ND
Xylenes (Total)	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	4 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	4.7	***9***	ND	ND	ND	ND	ND	ND	ND	ND	ND
Number of TICs		0	0	1			0	0	1		
Total TIC concentration		ND	ND	26			ND	ND	26 J		

Notes:
All values are in micrograms per liter (µg/L)
ND - Not detected
D - Dilution
J - Estimated value, VOCs
NA - Not analyzed
BOLD/ITALICS - exceeds criterion

TABLE 3
SERVALL LAUNDRY SITE (SITE 1-52-077)
PERIODIC SAMPLING - 2006 THROUGH 2011 SAMPLING EVENTS
SUMMARY OF VOCs IN GROUNDWATER

Sample Location	NYSDEC	MW-14	MW-14	MW-14	MW-14	MW-14	MW-16	MW-16	MW-16	MW-16	MW-16
Sample ID	Class GA	SMW-14	SMW-14	SL-MW-14	SL-MW-14	SL-MW-14	SMW-16	SMW-16	SL-MW-16	SL-MW-16	SL-MW-16
Laboratory ID	Ground	E0832-03	F1174-06C	G2115-18	J0189-04	K0834-05	E0832-04	F1174-12B	G2115-05	J0189-05	K0834-08
Sample Date	Water	6/15/06	8/22/07	11/14/08	2/2/10	5/10/11	6/15/06	8/27/07	11/12/08	2/2/10	5/11/11
	Criteria	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Vinyl Chloride	2	ND	ND	ND	ND	ND	ND	ND	ND	1.2 J	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	4 J	ND	ND	2.4 J	ND
Acetone	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	10	ND	ND	ND	1.1 J	8.0	2 J	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	***15***	ND	2.1 J	***16***	***8.0***
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	***5***	ND	ND	2.8 J	ND
Trichloroethene	5	ND	ND	ND	ND	ND	***16***	ND	1.1 J	***11***	***7.5***
Tetrachloroethene	5	ND	2 J	ND	ND	ND	***25***	2 J	***6.9***	***48***	***95***
Xylenes (Total)	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	4.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Number of TICs		0	0	1			0	0	1		
Total TIC concentration		ND	ND	20 J			ND	ND	23 J		

Notes:
All values are in micrograms per liter (µg/L)
ND - Not detected
D - Dilution
J - Estimated value, VOCs
NA - Not analyzed
BOLD/ITALICS - exceeds criterion

TABLE 3
SERVALL LAUNDRY SITE (SITE 1-52-077)
PERIODIC SAMPLING - 2006 THROUGH 2011 SAMPLING EVENTS
SUMMARY OF VOCs IN GROUNDWATER

Sample Location	NYSDEC	MW-23S	MW-23S	MW-23S	MW-23S	MW-23S	MW-23D	MW-23D	MW-23D	MW-23D	MW-23D
Sample ID	Class GA	SMW-23S	SMW-23S	SL-MW-23S	SL-MW-23S	SL-MW-23S	SMW-23D	SMW-23D	SL-MW-23D	SL-MW-23D	SL-MW-23D
Laboratory ID	Ground	E0773-20	F1174-11B	G2115-03	J0196-03	K0834-06	E0773-21	F1174-09B	G2115-04	J0196-04	K0834-07
Sample Date	Water	6/8/06	8/27/07	11/12/08	2/3/10	5/11/11	6/8/06	8/27/07	11/12/08	2/3/10	5/11/11
	Criteria	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Vinyl Chloride	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	2.5 J	ND	ND	ND	ND	ND
Acetone	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	1 J	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	10	ND	1 J	ND	5.4	3.9 J	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	1.6 J	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	***360 D***	***180 D***	***45***	***38***	***83***	ND	ND	ND	ND	3.0 J
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	1.6 J	1.3 J	3.8 J	ND	ND	ND	ND	ND
Trichloroethene	5	***220 D***	***99***	***18***	***15***	***46***	ND	ND	ND	ND	1.2 J
Tetrachloroethene	5	***5,200 D***	***1,700 D***	***500 D***	***590 D***	***1,500 D***	4 J	***6***	***7.7***	***8.3***	***25***
Xylenes (Total)	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	4.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Number of TICs		2	0	1			1	0	1		
Total TIC concentration		1,250 JD	ND	21 J			6 J	ND	25 J		

Notes:
All values are in micrograms per liter (µg/L)
ND - Not detected
D - Dilution
J - Estimated value, VOCs
NA - Not analyzed
BOLD/ITALICS - exceeds criterion

TABLE 4
SERVALL LAUNDRY SITE (SITE 1-52-077)
PERIODIC SAMPLING - 2006 THROUGH 2011 SAMPLING EVENTS
SUMMARY OF TAL METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-1	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2
Sample ID	Class GA	SL-MW-1	Can't	Can't	SL-MW-2	SL-MW-2	SL-MW-2	SL-MW-2
Laboratory ID	Ground	J0196-01	Locate	Locate	G2115-14	J0196-06	K0834-09	K0834-09
Sample Date	Water	2/3/10	6/6/06	8/21/07	11/14/08	2/4/10	5/11/11	5/11/11
Filtered / Unfiltered		Unfiltered	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Filtered
	Criteria	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Aluminum	NC	167 B	NA	NA	266	466	937	ND
Antimony	3	ND	NA	NA	ND	ND	ND	ND
Arsenic	25	ND	NA	NA	ND	ND	ND	ND
Barium	1,000	69.4 B	NA	NA	17.5 B	31.7 B	37.1 B	24.8 B
Beryllium	3	ND	NA	NA	ND	ND	ND	ND
Cadmium	5	1.3 B	NA	NA	***8.8*** *E	***43.7***	***17.3***	***8.8***
Calcium	NC	40,600	NA	NA	15,300	18,500	18,900	17,600
Chromium	50	2.1 B	NA	NA	***113*** *	***326***	***434***	7.3 B
Cobalt	NC	ND	NA	NA	20.4 B	2.4 B	3.4 B	0.98 B
Copper	200	9.2 B	NA	NA	18.4 B	28.7 B	28.3 B	ND
Iron	300	***673***	NA	NA	***3,120***	***2,030***	***2,790***	ND
Lead	25	ND	NA	NA	3.3 B	6.8 B	7.4 B	ND
Magnesium	35,000	1,470	NA	NA	1,250	2,610	3,180	2,610
Manganese	300	264	NA	NA	***396***	***325***	***465***	88.4
Mercury	0.7	ND	NA	NA	ND	ND	0.029 BN	ND
Nickel	100	3.6 B	NA	NA	***1,390***	72	70 E	21 B
Potassium	NC	2,040	NA	NA	1,980	2,290	2,380	2,270
Selenium	10	ND	NA	NA	ND	ND	ND	ND
Silver	50	ND	NA	NA	ND	ND	ND	ND
Sodium	20,000	***47,400***	NA	NA	14,600	***30,200***	***29,900***	***27,800***
Thallium	0.5	ND	NA	NA	ND	ND	ND	ND
Vanadium	NC	0.70 B	NA	NA	2.8 B	3.9 B	5.6 B	ND
Zinc	2,000	42.6 B	NA	NA	44.4 B	155	84.3	34.1 B

Notes: All values are in micrograms per liter (µg/L)
NC - No criterion
ND - Not detected
B - Estimated value, metals
D - Dilution
N - Matrix spike recovery falls outside of the control limit
NA - Data not available
BOLD/ITALICS - exceeds criterion
* - Estimated value, duplicate out of range
E - Estimated value due to interference

TABLE 4
SERVALL LAUNDRY SITE (SITE 1-52-077)
PERIODIC SAMPLING - 2006 THROUGH 2011 SAMPLING EVENTS
SUMMARY OF TAL METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-3A	MW-3A	MW-3A	MW-3A	MW-3A	MW-3A
Sample ID	Class GA	SMW-3A	SMW-3A	SL-MW-3A	SL-MW-3A	SL-MW-3A	SL-MW-3A
Laboratory ID	Ground	E0773-18	F1174-02C	G2115-16	J0196-02	K0834-10	K0834-10
Sample Date	Water	6/6/06	8/21/07	11/14/08	2/3/10	5/11/11	5/11/11
Filtered / Unfiltered		Unfiltered	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Filtered
	Criteria	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Aluminum	NC	749	817	1,630	7,870	10,800	ND
Antimony	3	ND	ND	***5.1*** B	ND	ND	ND
Arsenic	25	ND	ND	ND	7.8 B	6.7 B	ND
Barium	1,000	67.3 B	ND	83.9 B	134 B	101 B	14 B
Beryllium	3	ND	ND	ND	0.34 B	0.35 B	ND
Cadmium	5	ND	1.4 B	***5.9*** *E	***6.8***	3.3 B	ND
Calcium	NC	10,800	5,740	15,000	14,100	30,200	19,000
Chromium	50	***55.8***	***92.9***	36.3 *	***169***	***166***	2.5 B
Cobalt	NC	2.4 B	1.8 B	7.3 B	15.8 B	10.9 B	ND
Copper	200	13 B	20 B	66.2	118	139	12.5 B
Iron	300	***1,070***	***911***	***3,040***	***13,900***	***14,100***	40 B
Lead	25	ND	3.6 B	***33.1***	***79.8***	***84***	ND
Magnesium	35,000	4,290	686	2,130	3,240	4,230	800
Manganese	300	143	264	***1,840***	***2,580***	***1,040***	39 B
Mercury	0.7	ND	ND	ND	0.11 B	0.15 BN	ND
Nickel	100	23.6 B	20.7 B	22.1 B	77.2	60 E	4.9 B
Potassium	NC	2,170	1,010	2,550	2,150	4,000	2,880
Selenium	10	ND	ND	ND	ND	ND	ND
Silver	50	ND	1.2 B	ND	ND	ND	ND
Sodium	20,000	***129,000***	1,610	9,900	***64,700***	***60,000***	***54,400***
Thallium	0.5	ND	ND	ND	***16.7*** B	ND	ND
Vanadium	NC	1.4 B	1.1 B	8 B	23.2 B	27.9 B	ND
Zinc	2,000	53.7	46.6 B	594	1,040	865	104

Notes: All values are in micrograms per liter (µg/L)
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BOLD/ITALICS - exceeds criterion
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E - Estimated value due to interference

TABLE 4
SERVALL LAUNDRY SITE (SITE 1-52-077)
PERIODIC SAMPLING - 2006 THROUGH 2011 SAMPLING EVENTS
SUMMARY OF TAL METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-3B	MW-3B	MW-3B	MW-3B	MW-3B	MW-3B
Sample ID	Class GA	Can't	Can't	SL-MW-3B	SL-MW-3B	SL-MW-3B	SL-MW-3B
Laboratory ID	Ground	Locate	Locate	G2115-17	J0196-07	K0834-11	K0834-11
Sample Date	Water	6/6/06	8/21/07	11/14/08	2/4/10	5/11/11	5/11/11
Filtered / Unfiltered		Unfiltered	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Filtered
	Criteria	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Aluminum	NC	NA	NA	2,030	2,430	3,950	ND
Antimony	3	NA	NA	ND	ND	ND	ND
Arsenic	25	NA	NA	ND	ND	ND	ND
Barium	1,000	NA	NA	31.5 B	35.2	32.7 B	7 B
Beryllium	3	NA	NA	ND	0.085 B	ND	ND
Cadmium	5	NA	NA	2.2 B*E	1.1 B	ND	ND
Calcium	NC	NA	NA	9,700	6,930	12,900	10,100
Chromium	50	NA	NA	***624*** *	***901***	***595***	17.4 B
Cobalt	NC	NA	NA	14.9 B	5.1 B	6.5 B	ND
Copper	200	NA	NA	74.7	49.1	50.5	11.1 B
Iron	300	NA	NA	***4,610***	***4,800***	***6,160***	81 B
Lead	25	NA	NA	14.4	***29.3***	***29.8***	ND
Magnesium	35,000	NA	NA	1,490	1,280	1,700	622
Manganese	300	NA	NA	***447***	128	121	ND
Mercury	0.7	NA	NA	0.051 B	0.064 B	0.058 BN	ND
Nickel	100	NA	NA	***540***	***121***	***110*** E	55.7
Potassium	NC	NA	NA	3,040	1,170	1,910	1,450
Selenium	10	NA	NA	ND	ND	ND	ND
Silver	50	NA	NA	ND	ND	ND	ND
Sodium	20,000	NA	NA	6,730	***22,300***	8,260	7,560
Thallium	0.5	NA	NA	ND	ND	ND	ND
Vanadium	NC	NA	NA	5.9 B	10.3 B	13.2 B	ND
Zinc	2,000	NA	NA	191	189	245	67.7

Notes: All values are in micrograms per liter (µg/L)
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TABLE 4
SERVALL LAUNDRY SITE (SITE 1-52-077)
PERIODIC SAMPLING - 2006 THROUGH 2011 SAMPLING EVENTS
SUMMARY OF TAL METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4
Sample ID	Class GA	SMW-4	SMW-4	SMW-4	SL-MW-4	SL-MW-4	SL-MW-4	SL-MW-4
Laboratory ID	Ground	E0832-10	F0495-02E	F1174-03C	G2115-09	J0196-08	K0834-12	K0834-12
Sample Date	Water	6/16/06	4/20/07	8/21/07	11/13/08	2/4/10	5/12/11	5/12/11
Filtered / Unfiltered		Unfiltered	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Filtered
	Criteria	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Aluminum	NC	82.5 B	271	721	1,450	13,500	11,200	ND
Antimony	3	ND	***9.4 B***	ND	ND	ND	ND	ND
Arsenic	25	2.2 B	ND	6.2 B	ND	ND	ND	ND
Barium	1,000	16.7 B	46.4 B	50.3 B	46.7 B	36.5 B	45.2 B	26.3 B
Beryllium	3	ND	ND	0.061 B	ND	0.11 B	ND	ND
Cadmium	5	0.73 B	1.4 B	2.6 B	***6.1*** *E	2.6 B	1.3 B	ND
Calcium	NC	13,600	18,700	19,600	52,000	15,400	20,400	19,200
Chromium	50	***534***	***337***	***382***	***321*** *	***343***	***552***	33.2
Cobalt	NC	1.6 B	6.5 B	8.9 B	21.4 B	6.6 B	7.4 B	ND
Copper	200	33.6	16 B	21.5 B	28.6 B	159	124	7.7 B
Iron	300	***1,710***	***1,970***	***2,970***	***3,280***	***3,150***	***5,060***	ND
Lead	25	1.6 B	0.99 B	2.4 B	5.2 B	7.5 B	20.4	ND
Magnesium	35,000	3,310	4,910	5,130	3,820	3,470	4,010	3,310
Manganese	300	181	***1,280***	***1,240***	***1,390***	***599***	***1,540***	***417***
Mercury	0.7	ND	0.057 B	ND	ND	0.072 B	0.062 BN	ND
Nickel	100	***240***	***565***	***702***	***1,860***	***103***	***147*** E	10 B
Potassium	NC	2,710	4,690	4,930	4,170	2,540	3,320	2,960
Selenium	10	ND	5.3 B	ND	ND	ND	ND	ND
Silver	50	ND	0.95 B	1.9 B	ND	ND	ND	ND
Sodium	20,000	13,400	***33,800***	***39,300***	***39,000***	***85,500***	***133,000***	***128,000***
Thallium	0.5	ND	ND	ND	ND	ND	ND	ND
Vanadium	NC	1.4 B	1.4 B	1.8 B	1.9 B	4.3 B	8 B	ND
Zinc	2,000	17.7 B	31 B	44 B	63.4	155	154	29.3 B

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E - Estimated value due to interference

TABLE 4
SERVALL LAUNDRY SITE (SITE 1-52-077)
PERIODIC SAMPLING - 2006 THROUGH 2011 SAMPLING EVENTS
SUMMARY OF TAL METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5
Sample ID	Class GA	SMW-5	SMW-5	SMW-5	SL-MW-5	SL-MW-5	SL-MW-5	SL-MW-5
Laboratory ID	Ground	E0832-05	F0495-04B	F1174-13B	G2115-13	J0196-09	K0834-15	K0834-15
Sample Date	Water	6/15/06	4/20/07	8/27/07	11/13/08	2/4/10	5/12/11	5/12/11
Filtered / Unfiltered		Unfiltered	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Filtered
	Criteria	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Aluminum	NC	391	264	2,740	383	4,640	6,060	ND
Antimony	3	ND	ND	ND	ND	ND	ND	ND
Arsenic	25	1.7 B	ND	20.9	8 B	10.7 B	20.4	11.6 B
Barium	1,000	17.9 B	10.9 B	65.2 B	233	95.8 B	51 B	33.3 B
Beryllium	3	ND	ND	0.26 B	ND	0.26 B	0.44 B	ND
Cadmium	5	2.4 B	2.1 B	1.3 B	0.41 B*E	1.7 B	1.4 B	ND
Calcium	NC	20,700	20,400	18,700	31,400	17,900	9,790	8,520
Chromium	50	***80.5***	***79.8***	***1,370***	***116*** *	***201***	***437***	ND
Cobalt	NC	1.3 B	0.93 B	14.1 B	24.6 B	26.8 B	43.8 B	17.7 B
Copper	200	6.8 B	6.4 B	34.9	10.3 B	74.2	146	ND
Iron	300	***934***	***483***	***7,140***	***49,400***	***26,900***	***37,600***	***31,100***
Lead	25	3.6 B	1.4 B	2.3 B	ND	7.5 B	12.8	ND
Magnesium	35,000	3,420	3,230	3,380	5,590	2,900	2,100	1,340
Manganese	300	209	219	***3,550***	***1,830***	***2,410***	***1,290***	***1,000***
Mercury	0.7	ND	0.05 B	ND	ND	0.12 B	0.39 N	ND
Nickel	100	39.1 B	***127***	***135***	49 B	37.5 B	59.9 E	6.7 B
Potassium	NC	2,490	1,960	5,000	13,900	10,300	7,470	8,510
Selenium	10	ND	1.2 B	ND	ND	ND	ND	ND
Silver	50	ND	1.3 B	1.3 B	ND	ND	ND	ND
Sodium	20,000	13,400	14,700	***43,300***	***59,200***	***32,900***	***31,800***	***35,600***
Thallium	0.5	***1.4 B***	ND	ND	ND	***14*** B	ND	ND
Vanadium	NC	0.89 B	0.79 B	13.1 B	3.5 B	5.3 B	9.6 B	ND
Zinc	2,000	29.2 B	30.1 B	51.4	35.2 B	91.5	152	16.5 B

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TABLE 4
SERVALL LAUNDRY SITE (SITE 1-52-077)
PERIODIC SAMPLING - 2006 THROUGH 2011 SAMPLING EVENTS
SUMMARY OF TAL METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-6A	MW-6A	MW-6A	MW-6A	MW-6A	MW-6A	MW-6A
Sample ID	Class GA	SMW-6A	SMW-6A	SMW-6A	SMW-6A	SMW-6A	SMW-6A	SMW-6A
Laboratory ID	Ground	E0832-06	F0495-01B	F1174-04C	G2115-10	J0196-10	K0834-13	K0834-13
Sample Date	Water	6/15/06	4/20/07	8/21/07	11/13/08	2/4/10	5/12/11	5/12/11
Filtered / Unfiltered		Unfiltered	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Filtered
	Criteria	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Aluminum	NC	527	3,300	855	2390	2,840	14,700	77 B
Antimony	3	ND	***37.1***	ND	ND	ND	ND	ND
Arsenic	25	3.5 B	ND	8.2 B	ND	ND	6.3 B	ND
Barium	1,000	72.2 B	52.9 B	33.4 B	57.7 B	27.7 B	57.8 B	7.1 B
Beryllium	3	ND	ND	ND	ND	0.13 B	0.45 B	ND
Cadmium	5	1.5 B	4.3 B	2.2 B	1.9 B*E	1.1 B	2.7 B	ND
Calcium	NC	33,800	17,400	15,800	15,600	8,730	8,280	4,570
Chromium	50	***607***	***1,280***	***639***	***88.8*** *	***340***	***775***	12.8 B
Cobalt	NC	11.3 B	16.8 B	13.6 B	28.2 B	4.7 B	12 B	0.8 B
Copper	200	16 B	53.3	37.6	65.3	45.5	155	17.1 B
Iron	300	***3,780***	***6,330***	***4,410***	***4,200***	***4,380***	***28,500***	117 B
Lead	25	4.1 B	16.7	4.3 B	***25.9***	***27.8***	***78.9***	ND
Magnesium	35,000	5,070	2,870	2,660	2,870	1,990	3,020	968
Manganese	300	***7,140***	***3,890***	***6,410***	***3,250***	***346***	***381***	44 B
Mercury	0.7	ND	0.098 B	ND	ND	0.38	0.51 N	ND
Nickel	100	***160***	***273***	***1,130***	***196***	83.1	***237*** E	31.5 B
Potassium	NC	2,390	2,110	2490	9900	2,580	3,410	2,230
Selenium	10	1.7 B	9.8 B	ND	ND	ND	ND	ND
Silver	50	ND	ND	3.3 B	ND	ND	ND	ND
Sodium	20,000	***59,600***	***39,600***	***31,600***	***8,730***	***92,200***	***63,400***	***62,000***
Thallium	0.5	***32.3***	ND	ND	ND	ND	ND	ND
Vanadium	NC	2.6 B	7.2 B	2.8 B	5.3 B	6.8 B	32.2 B	1.2 B
Zinc	2,000	45.6 B	115	53.6	125	111	315	55.1

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TABLE 4
SERVALL LAUNDRY SITE (SITE 1-52-077)
PERIODIC SAMPLING - 2006 THROUGH 2011 SAMPLING EVENTS
SUMMARY OF TAL METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-6B	MW-6B	MW-6B	MW-6B	MW-6B	MW-6B	MW-6B
Sample ID	Class GA	SMW-6B	SMW-6B	SMW-6B	SMW-6B	SMW-6B	SMW-6B	SMW-6B
Laboratory ID	Ground	E0832-07	F0495-03	F1174-05	G2115-12	J0196-11	K0834-14	K0834-14
Sample Date	Water	6/15/06	4/20/07	8/21/07	11/13/08	2/4/10	5/12/11	5/12/11
Filtered / Unfiltered		Unfiltered	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Filtered
	Criteria	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Aluminum	NC	2,000	3,780	14,500	7,500	18,000	80,900	167 B
Antimony	3	2.7 B	***7.9 B***	ND	ND	ND	ND	ND
Arsenic	25	ND	ND	4.6 B	ND	6.8 B	40.6	ND
Barium	1,000	19.3 B	27.7 B	33.1 B	24.6 B	90.7 B	308	21.6 B
Beryllium	3	ND	0.24 B	0.35 B	0.37 B	1.5 B	***5.7***	ND
Cadmium	5	0.75 B	0.91 B	2.6 B	0.88 B*E	1.7 B	***5.2***	ND
Calcium	NC	19,600	25,100	24,400	22,500	26,900	29,800	17,800
Chromium	50	***62.2***	***133***	***143***	46.6 *	***225***	***1,520***	ND
Cobalt	NC	2.2 B	11.6 B	9.6 B	8.6 B	12.3 B	62.5	ND
Copper	200	17.5 B	37.2	150	96.6	143	***500***	ND
Iron	300	***1,950***	***5,500***	***9,130***	***5,950***	***28,500***	***146,000***	ND
Lead	25	2.8 B	9.1 B	18.5	9 B	***83.9***	***316***	ND
Magnesium	35,000	3,430	4,520	5,030	3,600	5,840	12,800	2,700
Manganese	300	81.6	***344***	***429***	***540***	269	***1,500***	ND
Mercury	0.7	ND	0.065 B	ND	ND	0.39	1.3 N	ND
Nickel	100	46.1 B	51.3	47 B	12.5 B	70.4	***186*** E	3.3 B
Potassium	NC	2,210	2,510	2,460	1,740	3,220	6,530	1,810
Selenium	10	ND	ND	ND	ND	ND	ND	ND
Silver	50	ND	1.3 B	ND	ND	ND	ND	ND
Sodium	20,000	17,800	***28,200***	***25,900***	15,100	17,400	18,200	19,500
Thallium	0.5	ND	ND	ND	ND	ND	ND	ND
Vanadium	NC	1.1 B	3.7 B	7.9 B	3.3 B	29.7 B	169	ND
Zinc	2,000	53.6	80.4	240	100	325	1,310	20.7 B

Notes: All values are in micrograms per liter (µg/L)
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TABLE 4
SERVALL LAUNDRY SITE (SITE 1-52-077)
PERIODIC SAMPLING - 2006 THROUGH 2011 SAMPLING EVENTS
SUMMARY OF TAL METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-9	MW-11	MW-11	MW-11	MW-11	MW-11
Sample ID	Class GA		SMW-11	SMW-11	SL-MW-11	SL-MW-11	SL-MW-11
Laboratory ID	Ground	Destroyed	E0773-19		G2115-01		
Sample Date	Water	6/09/06	6/8/06	8/20/07	11/11/08	2/1/10	5/10/11
Filtered / Unfiltered			Unfiltered		Unfiltered		
	Criteria	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Aluminum	NC	NA	1,440	NA	494	NA	NA
Antimony	3	NA	ND	NA	ND	NA	NA
Arsenic	25	NA	1.7 B	NA	ND	NA	NA
Barium	1,000	NA	46.1 B	NA	29.3 B	NA	NA
Beryllium	3	NA	ND	NA	ND	NA	NA
Cadmium	5	NA	4.4 B	NA	0.71 B*E	NA	NA
Calcium	NC	NA	11,100	NA	10,100	NA	NA
Chromium	50	NA	***50.1***	NA	8.9 B*	NA	NA
Cobalt	NC	NA	2.7 B	NA	ND	NA	NA
Copper	200	NA	18.5 B	NA	ND	NA	NA
Iron	300	NA	***1,510***	NA	***1,440***	NA	NA
Lead	25	NA	ND	NA	6.5 B	NA	NA
Magnesium	35,000	NA	3,560	NA	2,920	NA	NA
Manganese	300	NA	30.7 B	NA	201	NA	NA
Mercury	0.7	NA	ND	NA	ND	NA	NA
Nickel	100	NA	22.4 B	NA	7.7 B	NA	NA
Potassium	NC	NA	1,940	NA	2,560	NA	NA
Selenium	10	NA	ND	NA	ND	NA	NA
Silver	50	NA	ND	NA	ND	NA	NA
Sodium	20,000	NA	***23,700***	NA	15,500	NA	NA
Thallium	0.5	NA	ND	NA	ND	NA	NA
Vanadium	NC	NA	2.7 B	NA	2.2 B	NA	NA
Zinc	2,000	NA	80.9	NA	46.9 B	NA	NA

Notes: All values are in micrograms per liter (µg/L)
NC - No criterion
ND - Not detected
B - Estimated value, metals
D - Dilution
N - Matrix spike recovery falls outside of the control limit
NA - Data not available
BOLD/ITALICS - exceeds criterion
* - Estimated value, duplicate out of range
E - Estimated value due to interference

TABLE 4
SERVALL LAUNDRY SITE (SITE 1-52-077)
PERIODIC SAMPLING - 2006 THROUGH 2011 SAMPLING EVENTS
SUMMARY OF TAL METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12
Sample ID	Class GA	SMW-12	SMW-12	SL-MW-12	SL-MW-12	SL-MW-12	SL-MW-12
Laboratory ID	Ground	E0832-01	F1174-08C	G2115-06	J0189-01	K0834-01	K0834-01
Sample Date	Water	6/15/06	8/22/07	11/12/08	2/2/10	5/10/11	5/10/11
Filtered / Unfiltered		Unfiltered	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Filtered
	Criteria	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Aluminum	NC	369	257	377	294	697	ND
Antimony	3	1.8 B	ND	***6.2*** B	ND	ND	ND
Arsenic	25	8.2 B	20.2	ND	ND	ND	ND
Barium	1,000	67.6 B	81.8 B	163 B	94.9	77.3 B	55 B
Beryllium	3	ND	ND	ND	0.049 B	ND	ND
Cadmium	5	2.8 B	0.92 B	0.83 B*E	ND	1.6 B	ND
Calcium	NC	17,000	17,600	19,500	17,500	14,900	14,000
Chromium	50	***1,130***	***1,730***	***1,170*** *	***723***	***1,070***	7 B
Cobalt	NC	24.3 B	3.9 B	6.2 B	0.89 B	1.6 B	ND
Copper	200	67.9	59.1	33.9	15.7 B	19.4 B	ND
Iron	300	***2,810***	***7,040***	***4,720***	***3,730***	***6,020***	ND
Lead	25	4.9 B	ND	4.4 B	ND	5.7 B	ND
Magnesium	35,000	3,050	2,270	2,930	2,820	2,590	2,410
Manganese	300	***746***	***512***	***600***	***498***	***375***	298
Mercury	0.7	ND	ND	ND	ND	0.066 BN	ND
Nickel	100	***1,290***	***130***	***519***	53.2	31.1 BE	13.3 B
Potassium	NC	2,980	5,700	5,020	3,820	3,150	3,010
Selenium	10	3.1 B	7.3 B	ND	ND	ND	ND
Silver	50	ND	ND	ND	ND	ND	ND
Sodium	20,000	***62,500***	***42,000***	***40,100***	***62,700***	***41,800***	***40,000***
Thallium	0.5	***5 B***	ND	ND	ND	ND	ND
Vanadium	NC	2.1 B	4.2 B	4.6 B	2.0 B	2.7 B	ND
Zinc	2,000	35.2 B	22.9 B	38 B	25.7 B	40 B	33.9 B

Notes: All values are in micrograms per liter (µg/L)
NC - No criterion
ND - Not detected
B - Estimated value, metals
D - Dilution
N - Matrix spike recovery falls outside of the control limit
NA - Data not available
BOLD/ITALICS - exceeds criterion
* - Estimated value, duplicate out of range
E - Estimated value due to interference

TABLE 4
SERVALL LAUNDRY SITE (SITE 1-52-077)
PERIODIC SAMPLING - 2006 THROUGH 2011 SAMPLING EVENTS
SUMMARY OF TAL METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-13		MW-13		MW-13		MW-13		MW-13		MW-13	
Sample ID	Class GA	SMW-13		SMW-13		SL-MW-13		SL-MW-13		SL-MW-13		SL-MW-13	
Laboratory ID	Ground	E0832-02		F1174-07C		G2115-07		J0189-02		K0834-03		K0834-03	
Sample Date	Water	6/15/06		8/22/07		11/12/08		2/2/10		5/10/11		5/10/11	
Filtered / Unfiltered		Unfiltered		Unfiltered		Unfiltered		Unfiltered		Unfiltered		Filtered	
	Criteria	conc.	Q	conc.	Q	conc.	Q	conc.	Q	conc.	Q	conc.	Q
Aluminum	NC	38.5	B	328		417		565		558		107	B
Antimony	3	***6.3***	B	ND		ND		ND		ND		ND	
Arsenic	25	1.7	B	5.2	B	ND		ND		ND		ND	
Barium	1,000	55.5	B	43.6	B	47.3	B	33.6	B	48.8	B	40.9	B
Beryllium	3	ND		0.13	B	0.3	B	0.33	B	0.3	B	ND	
Cadmium	5	3.8	B	***48.1***		***53.6***	*E	***42.4***		***96.4***		***77***	
Calcium	NC	18,200		10,900		10,500		6,050		8,570		7,920	
Chromium	50	12.2	B	***263***		***90***	*	***330***		***819***		39.5	
Cobalt	NC	1.3	B	5.7	B	5.7	B	9.1	B	6.1	B	4.5	B
Copper	200	8.3	B	48.9		25.7	B	31.8		38.7		14.9	B
Iron	300	153	B	***1,470***		***1,140***		***2,150***		***4,840***		178	B
Lead	25	2.1	B	3.4	B	5.8	B	5.9	B	5.1	B	ND	
Magnesium	35,000	8,570		3,470		2,840		2,070		2,130		2,090	
Manganese	300	108		272		***343***		***446***		294		241	
Mercury	0.7	ND		ND		ND		ND		0.11	BN	ND	
Nickel	100	12	B	80		95.4		***452***		***345***	E	***309***	
Potassium	NC	1,310		2,480		3,060		2,680		3,480		3,480	
Selenium	10	ND		ND		ND		ND		ND		ND	
Silver	50	ND		ND		ND		ND		ND		ND	
Sodium	20,000	***35,700***		***41,000***		***34,300***		***36,800***		***36,000***		***36,400***	
Thallium	0.5	***1.7***	***B***	ND		ND		ND		ND		ND	
Vanadium	NC	0.6	B	1.4	B	1.4	B	1.5	B	9.4	B	ND	
Zinc	2,000	28.9	B	115		106		109		98.2		77.8	

Notes: All values are in micrograms per liter (µg/L)
NC - No criterion
ND - Not detected
B - Estimated value, metals
D - Dilution
N - Matrix spike recovery falls outside of the control limit
NA - Data not available
BOLD/ITALICS - exceeds criterion
* - Estimated value, duplicate out of range
E - Estimated value due to interference

TABLE 4
SERVALL LAUNDRY SITE (SITE 1-52-077)
PERIODIC SAMPLING - 2006 THROUGH 2011 SAMPLING EVENTS
SUMMARY OF TAL METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14
Sample ID	Class GA	SMW-14	SMW-14	SL-MW-14	SL-MW-14	SL-MW-14	SL-MW-14
Laboratory ID	Ground	E0832-03	F1174-06C	G2115-18	J0189-04	K0834-05	K0834-05
Sample Date	Water	6/15/06	8/22/07	11/14/08	2/2/10	5/10/11	5/10/11
Filtered / Unfiltered		Unfiltered	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Filtered
	Criteria	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Aluminum	NC	139 B	360	209	259	1250	ND
Antimony	3	2.7 B	ND	ND	ND	ND	ND
Arsenic	25	ND	3.2 B	ND	ND	ND	ND
Barium	1,000	48.6 B	55.3 B	58 B	35.9 B	36.5 B	24.3 B
Beryllium	3	ND	ND	ND	ND	ND	ND
Cadmium	5	1.3 B	1.8 B	2.8 B*E	ND	2.2 B	1 B
Calcium	NC	7,550	19,300	16,700	5,990	8,210	9,190
Chromium	50	49.9	***100***	***59.6*** *	***196***	***153***	0.64 B
Cobalt	NC	1.3 B	2.1 B	ND	2.2 B	3.6 B	2 B
Copper	200	ND	29.9 B	8.5 B	9.1 B	9 B	ND
Iron	300	***449***	***1,170***	***821***	***1,200***	***1,730***	ND
Lead	25	1.7 B	ND	ND	ND	4.8 B	ND
Magnesium	35,000	3,540	2,780	2,630	2,000	2,330	2,250
Manganese	300	25.6 B	33.4 B	35 B	134	101	13.9 B
Mercury	0.7	ND	ND	ND	ND	ND	ND
Nickel	100	24.3 B	68.8	79.9	27.7 B	28.3 BE	4.4 B
Potassium	NC	1,550	1,240	2,150	2,020	1,550	1,520
Selenium	10	1.4 B	ND	ND	ND	ND	ND
Silver	50	ND	1.4 B	ND	ND	ND	ND
Sodium	20,000	***60,500***	***31,700***	***70,400***	***76,300***	***82,800***	***84,400***
Thallium	0.5	***1.3 B***	***2.8***	ND	ND	ND	ND
Vanadium	NC	ND	1.2 B	ND	4.1 B	3.2 B	ND
Zinc	2,000	22.2 B	16.1 B	24.7 B	26.6 B	36.2 B	21.8 B

Notes: All values are in micrograms per liter (µg/L)
NC - No criterion
ND - Not detected
B - Estimated value, metals
D - Dilution
N - Matrix spike recovery falls outside of the control limit
NA - Data not available
BOLD/ITALICS - exceeds criterion
* - Estimated value, duplicate out of range
E - Estimated value due to interference

TABLE 4
SERVALL LAUNDRY SITE (SITE 1-52-077)
PERIODIC SAMPLING - 2006 THROUGH 2011 SAMPLING EVENTS
SUMMARY OF TAL METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16
Sample ID	Class GA	SMW-16	SMW-16	SL-MW-16	SL-MW-16	SL-MW-16	SL-MW-16
Laboratory ID	Ground	E0832-04	F1174-12B	G2115-05	J0189-05	K0834-08	K0834-08
Sample Date	Water	6/15/06	8/27/07	11/12/08	2/2/10	5/11/11	5/11/11
Filtered / Unfiltered		Unfiltered	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Filtered
	Criteria	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Aluminum	NC	534	453	672	1,090	819	ND
Antimony	3	ND	ND	ND	ND	ND	ND
Arsenic	25	7 B	9 B	ND	ND	ND	ND
Barium	1,000	13.6 B	ND	17.9 B	12.6 B	15.1 B	11.6 B
Beryllium	3	ND	0.064 B	ND	ND	ND	ND
Cadmium	5	0.71 B	1 B	0.54 B*E	ND	ND	ND
Calcium	NC	9,750	2,220	10,000	12,700	17,300	16,100
Chromium	50	***1,660***	***666***	***184*** *	***326***	***320***	38.5
Cobalt	NC	4 B	2.7 B	1.8 B	1.8 B	1.9 B	1.4 B
Copper	200	8.6 B	24 B	9 B	46.5	45.6	ND
Iron	300	***7,270***	***5,520***	***2,440***	***1,460***	***2,670***	***1,350***
Lead	25	2.8 B	1.2 B	4.3 B	3.6 B	ND	ND
Magnesium	35,000	4,790	628	3,530	5,950	8,150	7,700
Manganese	300	51.8	39.7 B	46.3 B	80.8	47.3 B	33.2 B
Mercury	0.7	ND	ND	0.018 B	ND	ND	ND
Nickel	100	***125***	***110***	90.1	62.8	73.4 E	64.1
Potassium	NC	1,040	1,330	2,530	1,510	1,980	1,730
Selenium	10	2.2 B	ND	ND	ND	ND	ND
Silver	50	ND	ND	ND	ND	ND	ND
Sodium	20,000	***24,500***	3,080	***33,600***	***34,300***	***91,300***	***85,200***
Thallium	0.5	ND	ND	ND	ND	ND	ND
Vanadium	NC	6.4 B	5.2 B	6 B	3.9 B	4 B	ND
Zinc	2,000	25.9 B	37.2 B	68.8	51.0	34.0 B	18.1 B

Notes: All values are in micrograms per liter (µg/L)
NC - No criterion
ND - Not detected
B - Estimated value, metals
D - Dilution
N - Matrix spike recovery falls outside of the control limit
NA - Data not available
BOLD/ITALICS - exceeds criterion
* - Estimated value, duplicate out of range
E - Estimated value due to interference

TABLE 4
SERVALL LAUNDRY SITE (SITE 1-52-077)
PERIODIC SAMPLING - 2006 THROUGH 2011 SAMPLING EVENTS
SUMMARY OF TAL METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-23S	MW-23S	MW-23S	MW-23S	MW-23S	MW-23S
Sample ID	Class GA	SMW-23S	SMW-23S	SL-MW-23S	SL-MW-23S	SL-MW-23S	SL-MW-23S
Laboratory ID	Ground	E0773-20	F1174-11B	G2115-03	J0196-03	K0834-06	K0834-06
Sample Date	Water	6/8/06	8/27/07	11/12/08	2/3/10	5/11/11	5/11/11
Filtered / Unfiltered		Unfiltered	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Filtered
	Criteria	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Aluminum	NC	253	83.7 B	109 B	126 B	354	ND
Antimony	3	ND	***7.5 B***	ND	ND	ND	ND
Arsenic	25	ND	ND	ND	ND	ND	ND
Barium	1,000	25.6 B	15 B	15.2 B	12.5 B	14.6 B	10.1 B
Beryllium	3	ND	ND	ND	ND	ND	ND
Cadmium	5	ND	3.3 B	***9.4*** *E	1.9 B	2 B	ND
Calcium	NC	17,800	18,300	12,400	13,600	14,700	14,700
Chromium	50	0.66 B	3.6 B	ND	1.3 B	2.1 B	ND
Cobalt	NC	2 B	2.2 B	ND	ND	ND	ND
Copper	200	8.5 B	20.1 B	ND	6.7 B	6.1 B	ND
Iron	300	133 B	247	***544***	272	***462***	ND
Lead	25	ND	ND	2.3 B	ND	ND	ND
Magnesium	35,000	6,830	6,950	4,920	5,420	5,900	5,820
Manganese	300	***1,570***	***1,370***	***1,230***	***1,420***	***1,490***	***1,130***
Mercury	0.7	ND	ND	ND	ND	ND	ND
Nickel	100	15 B	18.3 B	14.7 B	13.7 B	14.4 BE	7.8 B
Potassium	NC	1,340	1,500	1,240	1,100	1,310	1,300
Selenium	10	ND	ND	ND	ND	ND	ND
Silver	50	ND	2.4 B	ND	ND	ND	ND
Sodium	20,000	***28,700***	***35,200***	***25,500***	***23,500***	***29,900***	***30,100***
Thallium	0.5	***7.8 B***	ND	ND	***8.6 B***	ND	ND
Vanadium	NC	ND	0.44 B	1 B	0.71 B	ND	ND
Zinc	2,000	15.2 B	105	71.9	45.5 B	49.5 B	34.4 B

Notes: All values are in micrograms per liter (µg/L)
NC - No criterion
ND - Not detected
B - Estimated value, metals
D - Dilution
N - Matrix spike recovery falls outside of the control limit
NA - Data not available
BOLD/ITALICS - exceeds criterion
* - Estimated value, duplicate out of range
E - Estimated value due to interference

TABLE 4
SERVALL LAUNDRY SITE (SITE 1-52-077)
PERIODIC SAMPLING - 2006 THROUGH 2011 SAMPLING EVENTS
SUMMARY OF TAL METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-23D	MW-23D	MW-23D	MW-23D	MW-23D	MW-23D
Sample ID	Class GA	SMW-23D	SMW-23D	SL-MW-23D	SL-MW-23D	SL-MW-23D	SL-MW-23D
Laboratory ID	Ground	E0773-21	F1174-09B	G2115-04	J0196-04	K0834-07	K0834-07
Sample Date	Water	6/8/06	8/27/07	11/12/08	2/3/10	5/11/11	5/11/11
Filtered / Unfiltered		Unfiltered	Unfiltered	Unfiltered	Unfiltered	Unfiltered	Filtered
	Criteria	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q	conc. Q
Aluminum	NC	7,130	306	ND	182 B	353	ND
Antimony	3	1.4 B	***4.7*** B	ND	ND	ND	ND
Arsenic	25	2.5 B	ND	ND	ND	ND	ND
Barium	1,000	77.8 B	26 B	23.9 B	31.7 B	27.2 B	20.9 B
Beryllium	3	0.6 B	0.07 B	ND	ND	ND	ND
Cadmium	5	ND	0.25 B	0.24 B*E	0.54 B	ND	ND
Calcium	NC	14,800	14,100	17,600	16,500	18,800	18,400
Chromium	50	12.2 B	3.4 B	ND	1.5 B	1.8 B	ND
Cobalt	NC	5 B	2.4 B	ND	1.4 B	0.73 B	ND
Copper	200	27.2 B	22.3 B	ND	7.8 B	12.9 B	ND
Iron	300	***3,800***	***563***	82.5 B	***576***	***637***	ND
Lead	25	ND	1.7 B	ND	2.8 B	4.6 B	ND
Magnesium	35,000	2,440	2,570	3,350	3,260	4,080	4,000
Manganese	300	109	77.9	15.7 B	33.1 B	***1,470***	***902***
Mercury	0.7	ND	ND	ND	ND	ND	ND
Nickel	100	7.6 B	3.3 B	ND	2.5 B	1.4 BE	ND
Potassium	NC	3,270	2,930	3,110	3,870	2,840	2,800
Selenium	10	ND	ND	ND	ND	ND	ND
Silver	50	ND	1.9 B	ND	ND	ND	ND
Sodium	20,000	16,200	16,500	16,600	***29,200***	16,400	16,100
Thallium	0.5	***1.3 B***	ND	ND	ND	ND	ND
Vanadium	NC	14.5 B	1.3 B	ND	0.89 B	ND	ND
Zinc	2,000	53.8	30.6 B	17.8 B	35.9 B	41.5 B	24.6 B

Notes: All values are in micrograms per liter (µg/L)
NC - No criterion
ND - Not detected
B - Estimated value, metals
D - Dilution
N - Matrix spike recovery falls outside of the control limit
NA - Data not available
BOLD/ITALICS - exceeds criterion
* - Estimated value, duplicate out of range
E - Estimated value due to interference

TABLE 5
SERVALL LAUNDRY SITE (SITE 1-52-077)
MAY 2011 SAMPLING EVENT
COMPARISON OF FILTERED AND UNFILTERED SAMPLE DATA FOR METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-2	MW-2	MW-2	MW-3A	MW-3A	MW-3A	MW-3B	MW-3B	MW-3B
Sample ID	Class GA	SL-MW-2	SL-MW-2	SL-MW-2	SL-MW-3A	SL-MW-3A	SL-MW-3A	SL-MW-3B	SL-MW-3B	SL-MW-3B
Laboratory ID	Ground	K0834-09	K0834-09	K0834-09	K0834-10	K0834-10	K0834-10	K0834-11	K0834-11	K0834-11
Sample Date	Water	5/11/11	5/11/11	5/11/11	5/11/11	5/11/11	5/11/11	5/11/11	5/11/11	5/11/11
Filtered/Unfiltered		Unfiltered	Filtered	Percent	Unfiltered	Filtered	Percent	Unfiltered	Filtered	Percent
	Criteria	conc. Q	conc. Q	Dissolved	conc. Q	conc. Q	Dissolved	conc. Q	conc. Q	Dissolved
Aluminum	NC	937	0	0.0%	10,800	0	0.0%	3,950	0	0.0%
Antimony	3	ND	ND	NC	ND	ND	NC	ND	ND	NC
Arsenic	25	ND	ND	NC	6.7 B	0	0.0%	ND	ND	NC
Barium	1,000	37.1 B	24.8 B	66.8%	101 B	14 B	13.9%	32.7 B	7 B	21.4%
Beryllium	3	ND	ND	NC	0.35 B	0	0.0%	ND	ND	NC
Cadmium	5	***17.3***	***8.8***	50.9%	3.3 B	0	0.0%	0	0	NC
Calcium	NC	18,900	17,600	93.1%	30,200	19,000	62.9%	12,900	10,100	78.3%
Chromium	50	***434***	7.3 B	1.7%	***166***	2.5 B	1.5%	***595***	17.4 B	2.9%
Cobalt	NC	3.4 B	0.98 B	28.8%	10.9 B	0	0.0%	6.5 B	ND	0.0%
Copper	200	28.3 B	0	0.0%	139	12.5 B	0.0%	50.5	11.1 B	0.0%
Iron	300	***2,790***	0	0.0%	***14,100***	40 B	0.3%	***6,160***	81 B	1.3%
Lead	25	7.4 B	0	0.0%	***84***	0	0.0%	***29.8***	ND	0.0%
Magnesium	35,000	3,180	2,610	82.1%	4,230	800	18.9%	1,700	622	36.6%
Manganese	300	***465***	88.4	19.0%	***1,040***	39 B	3.8%	121	0	0.0%
Mercury	0.7	0.029 BN	0	0.0%	0.15 BN	0	0.0%	0.058 BN	0	0.0%
Nickel	100	70 E	21 B	29.2%	60 E	4.9 B	8.2%	***110*** E	55.7	50.6%
Potassium	NC	2,380	2,270	95.4%	4,000	2,880	72.0%	1,910	1,450	75.9%
Selenium	10	ND	ND	NC	ND	ND	NC	ND	ND	NC
Silver	50	ND	ND	NC	ND	ND	NC	ND	ND	NC
Sodium	20,000	***29,900***	***27,800***	93.0%	***60,000***	***54,400***	90.7%	8,260	7,560	91.5%
Thallium	0.5	ND	ND	NC	ND	ND	NC	ND	ND	NC
Vanadium	NC	5.6 B	0	0.0%	27.9 B	0	0.0%	13.2 B	0	0.0%
Zinc	2,000	84.3	34.1 B	40.5%	865	104	12.0%	245	67.7	27.6%
Turbidity (NTU)		2.8			33.2			25.3		

Notes:
NA - Data not available
NC - No criterion or Not Calculable
ND - Not detected
B - Estimated value, metals

All values except turbidity are in micrograms per liter (µg/L)
E - Estimated value due to interference
% Dissolved = (filtered conc/ unfiltered conc)
BOLD/ITALICS - exceeds criterion

TABLE 5
SERVALL LAUNDRY SITE (SITE 1-52-077)
MAY 2011 SAMPLING EVENT
COMPARISON OF FILTERED AND UNFILTERED SAMPLE DATA FOR METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-4	MW-4	MW-4	MW-5	MW-5	MW-5	MW-6A	MW-6A	MW-6A
Sample ID	Class GA	SL-MW-4	SL-MW-4	SL-MW-4	SL-MW-5	SL-MW-5	SL-MW-5	SMW-6A	SMW-6A	SMW-6A
Laboratory ID	Ground	K0834-12	K0834-12	K0834-12	K0834-15	K0834-15	K0834-15	K0834-13	K0834-13	K0834-13
Sample Date	Water	5/12/11	5/12/11	5/12/11	5/12/11	5/12/11	5/12/11	5/12/11	5/12/11	5/12/11
Filtered/Unfiltered		Unfiltered	Filtered	Percent	Unfiltered	Filtered	Percent	Unfiltered	Filtered	Percent
	Criteria	conc. Q	conc. Q	Dissolved	conc. Q	conc. Q	Dissolved	conc. Q	conc. Q	Dissolved
Aluminum	NC	11,200	0	0.0%	6,060	0	0.0%	14,700	77 B	0.5%
Antimony	3	ND	ND	NC	ND	ND	NC	ND	ND	NC
Arsenic	25	ND	ND	NC	20.4	11.6 B	56.9%	6.3 B	0	0.0%
Barium	1,000	45.2 B	26.3 B	58.2%	51 B	33.3 B	65.3%	57.8 B	7.1 B	12.3%
Beryllium	3	ND	ND	NC	0.44 B	0	0.0%	0.45 B	0	0.0%
Cadmium	5	1.3 B	0	0.0%	1.4 B	0	0.0%	2.7 B	0	0.0%
Calcium	NC	20,400	19,200	94.1%	9,790	8,520	87.0%	8,280	4,570	55.2%
Chromium	50	***552***	33.2	6.0%	***437***	0	0.0%	***775***	12.8 B	1.7%
Cobalt	NC	7.4 B	0	0.0%	43.8 B	17.7 B	40.4%	12 B	0.8 B	6.7%
Copper	200	124	7.7 B	0.0%	146	0	0.0%	155	17.1 B	11.0%
Iron	300	***5,060***	0	0.0%	***37,600***	***31,100***	82.7%	***28,500***	117 B	0.4%
Lead	25	20.4	0	0.0%	12.8	0	0.0%	***78.9***	0	0.0%
Magnesium	35,000	4,010	3,310	82.5%	2,100	1,340	63.8%	3,020	968	32.1%
Manganese	300	***1,540***	***417***	27.1%	***1,290***	***1,000***	77.5%	***381***	44 B	11.4%
Mercury	0.7	0.062 BN	0	0.0%	0.39 N	0	0.0%	0.51 N	0	0.0%
Nickel	100	***147*** E	10 B	6.7%	59.9 E	6.7 B	11.2%	***237*** E	31.5 B	13.3%
Potassium	NC	3,320	2,960	89.2%	7,470	8,510	113.9%	3,410	2,230	65.4%
Selenium	10	ND	ND	NC	ND	ND	NC	ND	ND	NC
Silver	50	ND	ND	NC	ND	ND	NC	ND	ND	NC
Sodium	20,000	***133,000***	***128,000***	96.2%	***31,800***	***35,600***	111.9%	***63,400***	***62,000***	97.8%
Thallium	0.5	ND	ND	NC	ND	ND	NC	ND	ND	NC
Vanadium	NC	8 B	0	0.0%	9.6 B	0	0.0%	32.2 B	1.2 B	3.7%
Zinc	2,000	154	29.3 B	19.0%	152	16.5 B	10.9%	315	55.1	17.5%
Turbidity (NTU)		0.9			8.7			18.3		

Notes:
NA - Data not available
NC - No criterion or Not Calculable
ND - Not detected
B - Estimated value, metals

All values except turbidity are in micrograms per liter (µg/L)
E - Estimated value due to interference
% Dissolved = (filtered conc/ unfiltered conc)
BOLD/ITALICS - exceeds criterion

TABLE 5
SERVALL LAUNDRY SITE (SITE 1-52-077)
MAY 2011 SAMPLING EVENT
COMPARISON OF FILTERED AND UNFILTERED SAMPLE DATA FOR METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-6B	MW-6B	MW-6B	MW-12	MW-12	MW-12	MW-13	MW-13	MW-13
Sample ID	Class GA	SMW-6B	SMW-6B	SMW-6B	SL-MW-12	SL-MW-12	SL-MW-12	SL-MW-13	SL-MW-13	SL-MW-13
Laboratory ID	Ground	K0834-14	K0834-14	K0834-14	K0834-01	K0834-01	K0834-01	K0834-03	K0834-03	K0834-03
Sample Date	Water	5/12/11	5/12/11	5/12/11	5/10/11	5/10/11	5/10/11	5/10/11	5/10/11	5/10/11
Filtered/Unfiltered		Unfiltered	Filtered	Percent	Unfiltered	Filtered	Percent	Unfiltered	Filtered	Percent
	Criteria	conc. Q	conc. Q	Dissolved	conc. Q	conc. Q	Dissolved	conc. Q	conc. Q	Dissolved
Aluminum	NC	80,900	167 B	0.2%	697	0	0.0%	558	107 B	19.2%
Antimony	3	ND	ND	NC	ND	ND	NC	ND	ND	NC
Arsenic	25	40.6	0	0.0%	ND	ND	NC	ND	ND	NC
Barium	1,000	308	21.6 B	7.0%	77.3 B	55 B	71.2%	48.8 B	40.9 B	83.8%
Beryllium	3	***5.7***	0	0.0%	ND	ND	NC	0.3 B	0	0.0%
Cadmium	5	***5.2***	0	0.0%	1.6 B	0	0.0%	***96.4***	***77***	79.9%
Calcium	NC	29,800	17,800	59.7%	14,900	14,000	94.0%	8,570	7,920	92.4%
Chromium	50	***1,520***	0	0.0%	***1,070***	7 B	0.6%	***819***	39.5	4.8%
Cobalt	NC	62.5	0	0.0%	1.6 B	0	0.0%	6.1 B	4.5 B	73.8%
Copper	200	***500***	0	0.0%	19.4 B	0	0.0%	38.7	14.9 B	38.5%
Iron	300	***146,000***	0	0.0%	***6,020***	0	0.0%	***4,840***	178 B	3.7%
Lead	25	***316***	0	0.0%	5.7 B	0	0.0%	5.1 B	0	0.0%
Magnesium	35,000	12,800	2,700	21.1%	2,590	2,410	93.1%	2,130	2,090	98.1%
Manganese	300	***1,500***	0	0.0%	***375***	298	79.5%	294	241	82.0%
Mercury	0.7	1.3 N	0	0.0%	0.066 BN	0	0.0%	0.11 BN	0	0.0%
Nickel	100	***186*** E	3.3 B	1.8%	31.1 BE	13.3 B	42.8%	***345*** E	***309***	89.6%
Potassium	NC	6,530	1,810	27.7%	3,150	3,010	95.6%	3,480	3,480	100.0%
Selenium	10	ND	ND	NC	ND	ND	NC	ND	ND	NC
Silver	50	ND	ND	NC	ND	ND	NC	ND	ND	NC
Sodium	20,000	18,200	19,500	107.1%	***41,800***	***40,000***	95.7%	***36,000***	***36,400***	101.1%
Thallium	0.5	ND	ND	NC	ND	ND	NC	ND	ND	NC
Vanadium	NC	169	0	0.0%	2.7 B	0	0.0%	9.4 B	0	0.0%
Zinc	2,000	1,310	20.7 B	1.6%	40 B	33.9 B	84.8%	98.2	77.8	79.2%
Turbidity (NTU)		3.7			11.8			3.9		

Notes: NA - Data not available
NC - No criterion or Not Calculable
ND - Not detected
B - Estimated value, metals

All values except turbidity are in micrograms per liter (µg/L)
E - Estimated value due to interference
% Dissolved = (filtered conc/ unfiltered conc)
BOLD/ITALICS - exceeds criterion

TABLE 5
SERVALL LAUNDRY SITE (SITE 1-52-077)
MAY 2011 SAMPLING EVENT
COMPARISON OF FILTERED AND UNFILTERED SAMPLE DATA FOR METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-14	MW-14	MW-14	MW-16	MW-16	MW-16
Sample ID	Class GA	SL-MW-14	SL-MW-14	SL-MW-14	SL-MW-16	SL-MW-16	SL-MW-16
Laboratory ID	Ground	K0834-05	K0834-05	K0834-05	K0834-08	K0834-08	K0834-08
Sample Date	Water	5/10/11	5/10/11	5/10/11	5/11/11	5/11/11	5/11/11
Filtered/Unfiltered		Unfiltered	Filtered	Percent	Unfiltered	Filtered	Percent
	Criteria	conc. Q	conc. Q	Dissolved	conc. Q	conc. Q	Dissolved
Aluminum	NC	1,250	0	0.0%	819	0	0.0%
Antimony	3	ND	ND	NC	ND	ND	NC
Arsenic	25	ND	ND	NC	ND	ND	NC
Barium	1,000	36.5 B	24.3 B	66.6%	15.1 B	11.6 B	76.8%
Beryllium	3	ND	ND	NC	ND	ND	NC
Cadmium	5	2.2 B	1.0 B	45.5%	0	0	NC
Calcium	NC	8,210	9,190	111.9%	17,300	16,100	93.1%
Chromium	50	***153***	0.64 B	0.4%	***320***	38.5	12.0%
Cobalt	NC	3.6 B	2 B	55.6%	1.9 B	1.4 B	73.7%
Copper	200	9 B	0	0.0%	45.6	0	0.0%
Iron	300	***1,730***	0	0.0%	***2,670***	***1,350***	50.6%
Lead	25	4.8 B	0	0.0%	0	0	NC
Magnesium	35,000	2,330	2,250	96.6%	8,150	7,700	94.5%
Manganese	300	101	13.9 B	13.8%	47.3 B	33.2 B	70.2%
Mercury	0.7	ND	ND	NC	0	0	NC
Nickel	100	28.3 BE	4.4 B	15.5%	73.4 E	64.1	87.3%
Potassium	NC	1,550	1,520	98.1%	1,980	1,730	87.4%
Selenium	10	ND	ND	NC	ND	ND	NC
Silver	50	ND	ND	NC	ND	ND	NC
Sodium	20,000	***82,800***	***84,400***	101.9%	***91,300***	***85,200***	93.3%
Thallium	0.5	ND	ND	NC	ND	ND	NC
Vanadium	NC	3.2 B	0	0.0%	4 B	0	0.0%
Zinc	2,000	36.2 B	21.8 B	60.2%	34.0 B	18.1 B	53.2%
Turbidity (NTU)		0.9			20.7		

Notes:
NA - Data not available
NC - No criterion or Not Calculable
ND - Not detected
B - Estimated value, metals

All values except turbidity are in micrograms per liter (µg/L)
E - Estimated value due to interference
% Dissolved = (filtered conc/ unfiltered conc)
BOLD/ITALICS - exceeds criterion

TABLE 5
SERVALL LAUNDRY SITE (SITE 1-52-077)
MAY 2011 SAMPLING EVENT
COMPARISON OF FILTERED AND UNFILTERED SAMPLE DATA FOR METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-23S	MW-23S	MW-23S	MW-23D	MW-23D	MW-23D
Sample ID	Class GA	SL-MW-23S	SL-MW-23S	SL-MW-23S	SL-MW-23D	SL-MW-23D	SL-MW-23D
Laboratory ID	Ground	K0834-06	K0834-06	K0834-06	K0834-07	K0834-07	K0834-07
Sample Date	Water	5/11/11	5/11/11	5/11/11	5/11/11	5/11/11	5/11/11
Filtered/Unfiltered		Unfiltered	Filtered	Percent	Unfiltered	Filtered	Percent
	Criteria	conc. Q	conc. Q	Dissolved	conc. Q	conc. Q	Dissolved
Aluminum	NC	354	0	0.0%	353	0	0.0%
Antimony	3	ND	ND	NC	ND	ND	NC
Arsenic	25	ND	ND	NC	ND	ND	NC
Barium	1,000	14.6 B	10.1 B	69.2%	27.2 B	20.9 B	76.8%
Beryllium	3	ND	ND	NC	ND	ND	NC
Cadmium	5	2 B	0	0.0%	0	0	NC
Calcium	NC	14,700	14,700	100.0%	18,800	18,400	97.9%
Chromium	50	2.1 B	0	0.0%	1.8 B	0	0.0%
Cobalt	NC	0	0	NC	0.73 B	0	0.0%
Copper	200	6.1 B	0	0.0%	12.9 B	0	0.0%
Iron	300	***462***	0	0.0%	***637***	0	0.0%
Lead	25	0	0	NC	4.6 B	0	0.0%
Magnesium	35,000	5,900	5,820	98.6%	4,080	4,000	98.0%
Manganese	300	***1,490***	***1,130***	75.8%	***1,470***	***902***	61.4%
Mercury	0.7	0	0	NC	0	0	NC
Nickel	100	14.4 BE	7.8 B	54.2%	1.4 BE	0	0.0%
Potassium	NC	1,310	1,300	99.2%	2,840	2,800	98.6%
Selenium	10	ND	ND	NC	ND	ND	NC
Silver	50	ND	ND	NC	ND	ND	NC
Sodium	20,000	***29,900***	***30,100***	100.7%	16,400	16,100	98.2%
Thallium	0.5	ND	ND	NC	ND	ND	NC
Vanadium	NC	0	0	NC	0	0	NC
Zinc	2,000	49.5 B	34.4 B	69.5%	41.5 B	24.6 B	59.3%
Turbidity (NTU)		16.1			***57.2***		

Notes:
NA - Data not available
NC - No criterion or Not Calculable
ND - Not detected
B - Estimated value, metals

All values except turbidity are in micrograms per liter (µg/L)
E - Estimated value due to interference
% Dissolved = (filtered conc/ unfiltered conc)
BOLD/ITALICS - exceeds criterion

TABLE 6
SERVALL LAUNDRY SITE (SITE 1-52-077)
FIELD DUPLICATE DATA - VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER
MAY 2011 SAMPLING EVENT

Sample Location	MW-12	MW-12	Precision as
Sample ID	SL-MW-12	SL-MW-62	Relative
Laboratory ID	K0834-01	K0834-02	Percent
Sample Date	5/10/11	5/10/11	Difference
	conc. Q	conc. Q	(RPD)
Vinyl Chloride	ND	ND	NC
1,1-Dichloroethene	ND	ND	NC
Acetone	ND	ND	NC
Benzene	ND	ND	NC
2-Butanone	ND	ND	NC
trans-1,2-Dichloroethene	ND	ND	NC
Methyl tert-butyl ether	1.7 J	1.7 J	0.0%
1,1-Dichloroethane	ND	ND	NC
cis-1,2-Dichloroethene	1.8 J	1.6 J	11.8%
Chloroform	ND	ND	NC
1,1,1-Trichloroethane	ND	ND	NC
Trichloroethene	ND	ND	NC
Tetrachloroethene	1.6 J	1.8 J	11.8%
Xylenes (Total)	ND	ND	NC
Toluene	ND	ND	NC
Chlorobenzene	ND	ND	NC
1,2-Dichlorobenzene	ND	ND	NC

Notes:
Only VOCs ever detected in any Round 1 - Round 5 sample are listed.
All values in µg/L
NC - Not Calculable (analyte not detected in one or both analyses)
ND - Not Detected
J - Estimated value (greater than MDL but less than RL)

TABLE 7
SERVALL LAUNDRY SITE (SITE 1-52--077)
FIELD DUPLICATE DATA - TAL METALS IN GROUNDWATER
MAY 2011 SAMPLING EVENT

Sample Location	MW-12		SL-MW-12		Precision	MW-12		SL-MW12		Precision
Sample ID	LMW-12		SL-MW-62		as	SL-MW-12		SL-MW-62		as
Laboratory ID	K0834-01		K0834-02		Relative	K0834-01		K0834-02		Relative
Sample Date	5/10/11		5/10/11		Percent	5/10/11		5/10/11		Percent
Filtered/Unfiltered	Unfiltered		Unfiltered		Difference	Filtered		Filtered		Difference
Metal	conc.	Q	conc.	Q	(RPD)	conc.	Q	conc.	Q	(RPD)
Aluminum	697		1,810		88.8%	ND		ND		NC
Antimony	ND		ND		NC	ND		ND		NC
Arsenic	ND		ND		NC	ND		ND		NC
Barium	77.3	B	77.2	B	0.1%	55	B	55.2	B	0.4%
Beryllium	ND		0.26		NC	ND		ND		NC
Cadmium	1.6	B	2.2	B	31.6%	ND		ND		NC
Calcium	14,900		14,700		1.4%	14,000		13,800		1.4%
Chromium	1070		1650		42.6%	6.8	B	7.9	B	15.0%
Cobalt	1.6	B	2.4	B	40.0%	ND		ND		NC
Copper	19.4	B	29.4	B	41.0%	ND		ND		NC
Iron	6,020		8,430		33.4%	ND		37	B	NC
Lead	5.7	B	7.8	B	31.1%	ND		ND		NC
Magnesium	2,590		2,580		0.4%	2,410		2,400		0.4%
Manganese	375		371		1.1%	298		299		0.3%
Mercury	0.066	BN	0.068	BN	3.0%	ND		ND		NC
Nickel	31.1	BE	55.3	E	56.0%	13.3	B	14.3	B	7.2%
Potassium	3,150		3,340		5.9%	3,010		3,070		2.0%
Selenium	ND		ND		NC	ND		ND		NC
Silver	ND		ND		NC	ND		ND		NC
Sodium	41,800		41,600		0.5%	40,000		40,200		0.5%
Thallium	ND		ND		NC	ND		ND		NC
Vanadium	2.7	B	5.6	B	69.9%	ND		ND		NC
Zinc	40	B	48.6	B	19.4%	33.9	B	35.7		5.2%

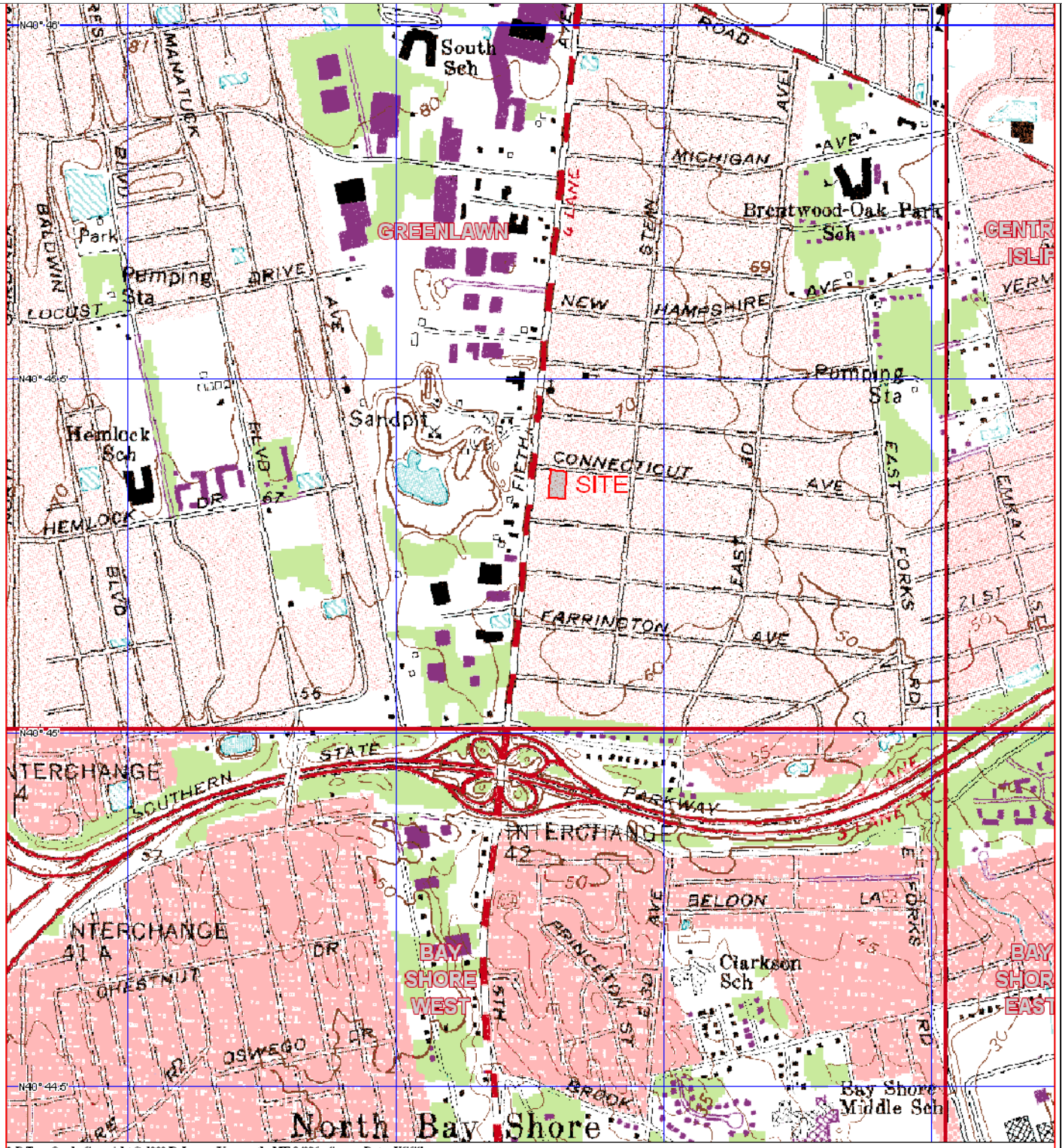
Notes:
All values in µg/L
NC - Not Calculable (analyte not detected in one or both analyses)
ND - Not Detected
B - Estimated value (greater than MDL but less than RL)
N - Laboratory spike recovery ouside control limit.
E - Estimated value due to interference.

TABLE 8
SUMMARY OF HISTORIC TETRACHLOROETHENE CONCENTRATIONS IN SELECTED MONITORING WELLS
SERVALL LAUNDRY SITE (SITE 1-52-077)

	MW-2	MW-3A	MW-3B	MW-4	MW-5	MW-6A	MW-6B	MW-11	MW-12	MW-13	MW-14	MW-16	MW-23S	MW-23D
May 2011	2.1 J	ND	ND	ND	ND	ND	150	NA	1.6 J	ND	ND	95	1500 D	25
Feb 2010	ND	ND	ND	ND	ND	1.2 J	2,000 D	NA	10	ND	ND	48	590 D	8.3
Nov 2008	ND	ND	ND	ND	ND	ND	470 D	60	60	1 J	ND	6.9	500 D	7.7
Aug 2007	ND	ND	NA	ND	2 J	ND	480 D	NA	17	ND	2 J	2 J	1,700 D	6
Apr 2007	NA	NA	NA	ND	ND	ND	650	NA	NA	NA	NA	NA	NA	NA
June 2006	NA	ND	NA	ND	ND	ND	1,100 D	56	17	5	ND	25	5,200 D	4 J
May 2004	NA	NA	NA	NA	NA	NA	NA	NA	7	0.3 J	ND	410 E	4	0.6 J
July 2000	NA	ND	ND	NA	ND	ND	160	96	820 D	6 J	ND	1,600 D	27	8 J
Jan 1999	ND	NA	ND	ND	3 J	1 J	22 J	290 J	6 J	4 J	ND	NA	29 J	3 J
Jan 1998	NA	ND	NA	4	ND	2	11,000	20	2	ND	ND	450	NA	ND
Dec 1995	NA	0.34 J	ND	ND	NA	ND	8,400 E	800	NA	230	NA	1,700 E	7.8	ND
Mar 1990	1 J	ND	8.1 J	ND	ND	100	13,000 DJ	5,900	ND	4,600 JD	ND	960 JD	NA	NA
Feb 1990	6	ND	6	ND	ND	48	14,000	8,900	ND	5,800 D	ND	260	NA	NA

Notes:
ND - Not detected
NA - Not sampled or data not available
E - Concentration exceeded the QC criterion, no dilution run data found
D - Dilution
J - Estimated concentration
The data presented in this table is a compilation of data available at the time of this report and is not a comprehensive listing of all data collected.
May 2004 - Data is very confusing. It is difficult to establish which well is presented on the Form 1s.
(taken from report.hw152077.2004-05.GW04.pdf)
July 2000 data from H2M Labs, (ServAll data Summary July 2000.pdf)
January 1999 & January 1998 (Harding Lawson, 1999 Groundwater Sampling Technical Memorandum (ServAll 1999 gw sampling.pdf)
December 1995 data from Plume Discharge Study (ServAll December 1995.pdf)
February and March 1990 data from E.C. Jordan, RI/FS 1992 (ServAll jan 1992.pdf)

Figures



3-D TopoQuads Copyright © 1999 DeLorme Yarmouth, ME 04096 Source Data: USGS

400 ft Scale: 1 : 14,400 Detail: 13-7 Datum: WGS84

SYMBOL	DESCRIPTIONS	DATE	APPROVED
	REVISIONS		

Prepared by : AECOM		For : NYSDEC	
DESIGNED BY : MKC	SERVALL LAUNDARY SITE BAY SHORE, NEW YORK		
DRAWN BY : MKC	SITE LOCATION MAP		
CHECKED BY : PK			
SUBMITTED BY : PK	DATE : August 2009	SCALE : 1"=400'	FIGURE NO. : 1



LEGEND:

MW-16 EXISTING MONITORING WELLS

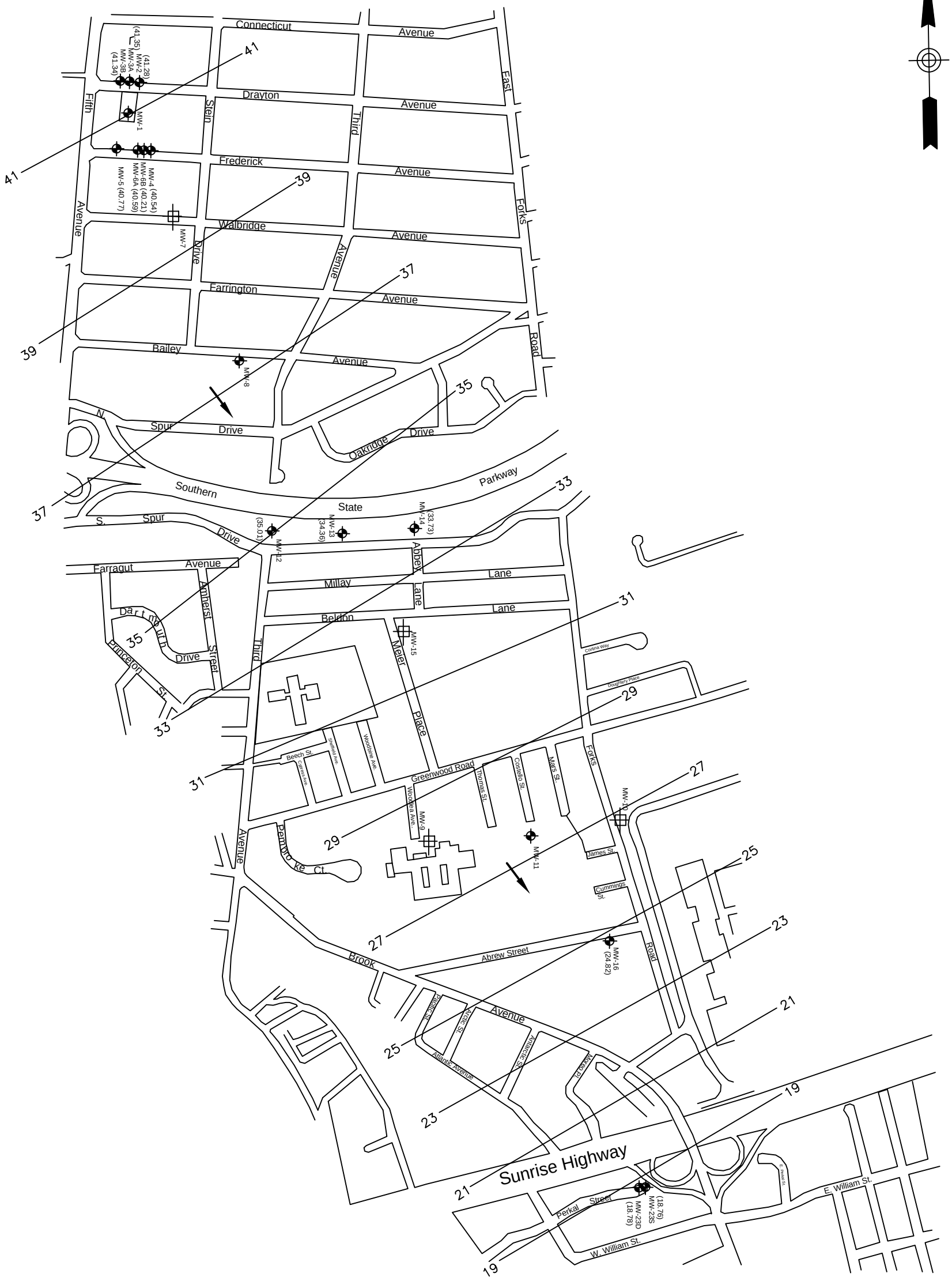
MW-10 DAMAGED OR MISSING MONITORING WELLS

GRAPHIC SCALE

1600 800 0 800 1600

Prepared by : AECOM

SUBMITTED BY : PK/jk	MULTI SITE G - SERVALL LAUNDRY SITE SITE NO. 1-52-026		
DRAWN BY : SC	MONITORING WELL LOCATION MAP		
APPROVED BY : PK	DATE : JUNE 2011	SCALE : AS SHOWN	DRAWING NO. : 2



LEGEND:

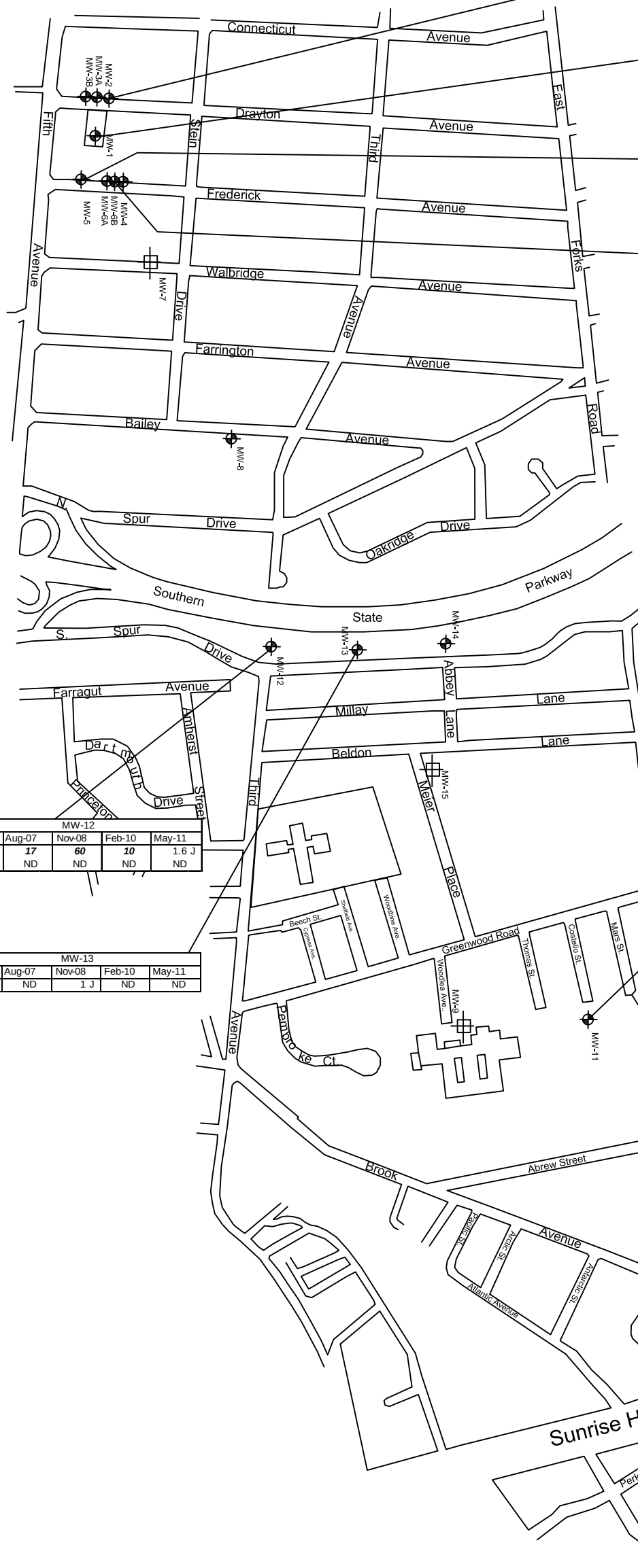
- MW-16 — EXISTING MONITORING WELLS
- DAMAGED OR MISSING MONITORING WELLS
- (18.76) — GROUNDWATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL
- - -19 - - — GROUNDWATER ISOPLETH, CONTOUR INTERVAL IS 2.0 ft
- DIRECTION OF GROUNDWATER FLOW

GRAPHIC SCALE

1600 800 0 800 1600

Prepared by : AECOM

SUBMITTED BY : PK	MULTI SITE G - SERVALL LAUNDRY SITE SITE NO. 1-52-026
DRAWN BY : SC	GROUNDWATER CONTOUR MAP MAY 9, 2011
APPROVED BY : PK	DATE : JUNE 2011 / SCALE : AS SHOWN / DRAWING NO. : 3



Compound	MW-2				
	Jun-06	Aug-07	Nov-08	Feb-10	May-11
Benzene	NA	NA	***1.7*** J	ND	ND

Compound	MW-1				
	Jun-06	Aug-07	Nov-08	Feb-10	May-11
Tetrachloroethene	NA	NA	NA	□□	NA

Compound	MW-5					
	Jun-06	Apr-07	Aug-07	Nov-08	Feb-10	May-11
Acetone	ND	ND	ND	***170***	ND	ND
Toluene	ND	ND	ND	***1,200***	***230 D***	ND

Compound	MW-6B					
	Jun-06	Apr-07	Aug-07	Nov-08	Feb-10	May-11
cis-1,2-Dichloroethene	***210 D***	***120***	***130***	***140***	***190***	***44***
Trichloroethene	***85***	***27***	***26***	***30***	***40***	***7.3***
Tetrachloroethene	***1,100 D***	***650***	***480 D***	***470 D***	***2,000 D***	***150***

Compound	MW-11				
	Jun-06	Aug-07	Nov-08	Feb-10	May-11
Tetrachloroethene	***56***	NA	***60***	NA	NA
Toluene	ND	NA	***63***	NA	NA

Compound	MW-12				
	Jun-06	Aug-07	Nov-08	Feb-10	May-11
Tetrachloroethene	***17***	***17***	***60***	***10***	1.6 J
1,2-Dichlorobenzene	***9***	ND	ND	ND	ND

Compound	MW-16				
	Jun-06	Aug-07	Nov-08	Feb-10	May-11
cis-1,2-Dichloroethene	***15***	ND	2.1 J	***16***	***8.0***
1,1,1-Trichloroethane	***5***	ND	ND	2.8 J	ND
Trichloroethene	***16***	ND	1.1 J	***11***	***7.5***
Tetrachloroethene	***25***	2 J	***6.9***	***48***	***95***

Compound	MW-13				
	Jun-06	Aug-07	Nov-08	Feb-10	May-11
Tetrachloroethene	***5***	ND	1 J	ND	ND

Compound	MW-23S				
	Jun-06	Aug-07	Nov-08	Feb-10	May-11
cis-1,2-Dichloroethene	***360 D***	***180 D***	***45***	***38***	***83***
Trichloroethene	***220 D***	***99***	***18***	***15***	***46***
Tetrachloroethene	***5,200 D***	***1,700 D***	***500 D***	***590 D***	***1,500 D***

Compound	MW-23D				
	Jun-06	Aug-07	Nov-08	Feb-10	May-11
Tetrachloroethene	4 J	***6***	***7.7***	***8.3***	***25***

LEGEND:

EXISTING MONITORING WELLS (MW-14)

DAMAGED OR MISSING MONITORING WELL (MW-10)

Compound	NYSDEC Criteria
Acetone	50
Benzene	1
cis-1,2-Dichloroethene	5
1,1,1-Trichloroethane	5
Trichloroethene	5
Tetrachloroethene	5
Toluene	5
1,2-Dichlorobenzene	4.7

Note:

All results are shown in micrograms per liter (ug/L)
BOLD: Results Exceeds Criterion
J: Estimated value
D: Dilution
NA: Not Analyzed
ND: Not Detected

GRAPHIC SCALE

1600 800 0 800 1600

Prepared by : AECOM

SUBMITTED BY : PK

DRAWN BY : SC

APPROVED BY : PK

MULTI SITE G - SERVALL LAUNDRY SITE
SITE NO. 1-52-077

SUMMARY OF VOCs IN GROUNDWATER

DATE : JUNE 2011

SCALE : AS SHOWN

DRAWING NO. : 4

Figure 5
Tetrachloroethene Concentrations in Selected Monitoring Wells
ServAll Laundry Site (1-52-077)

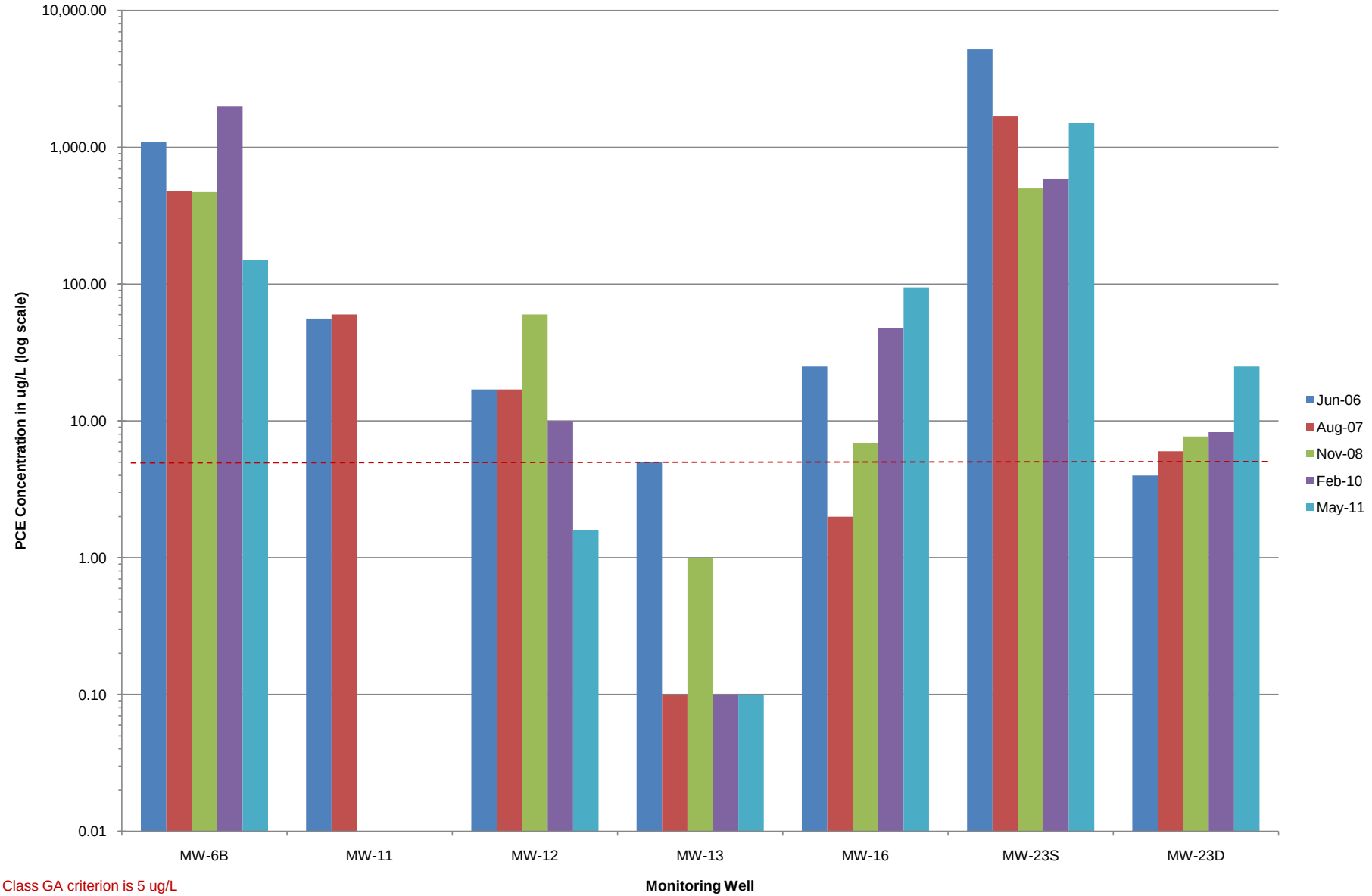
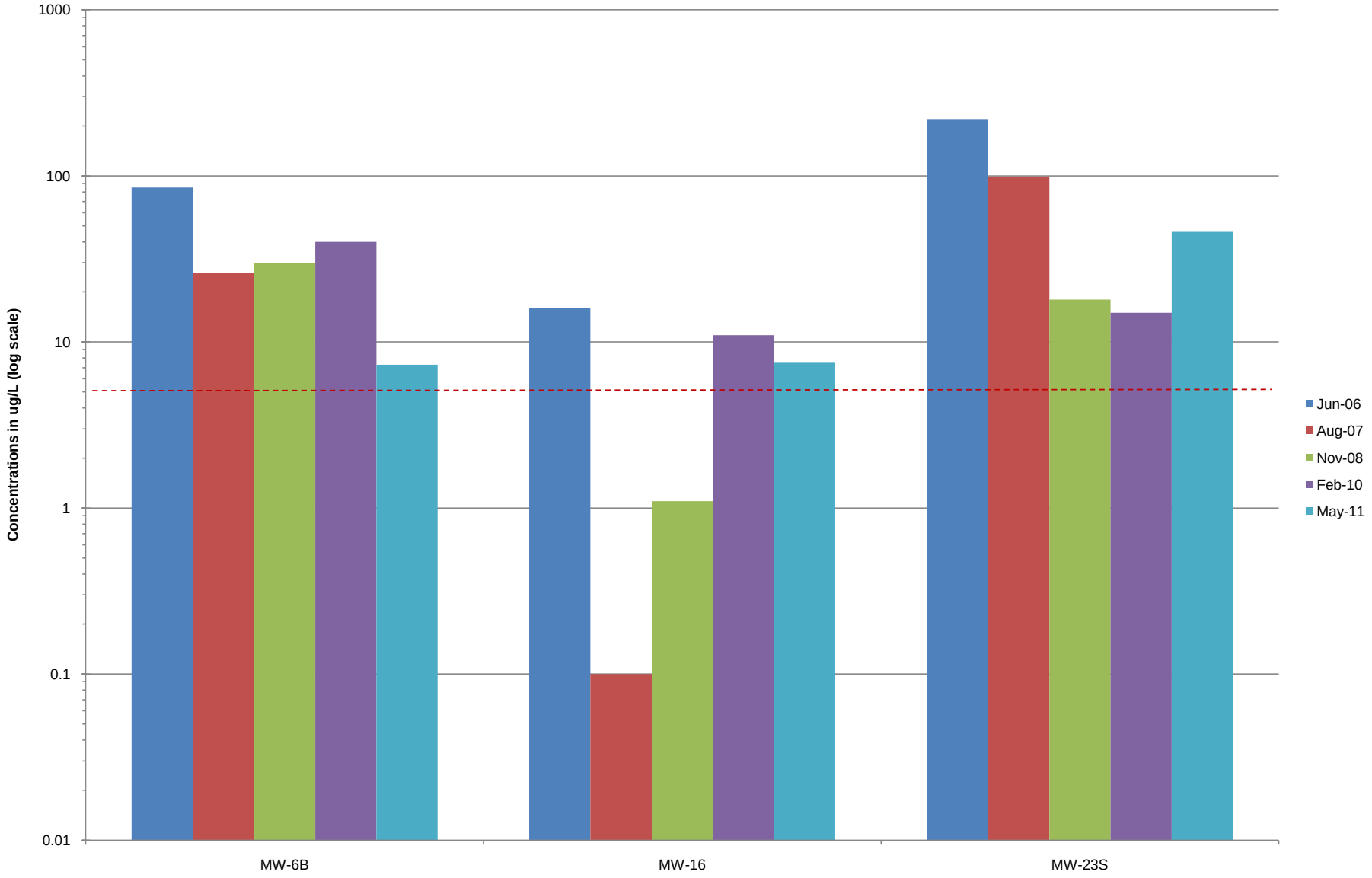
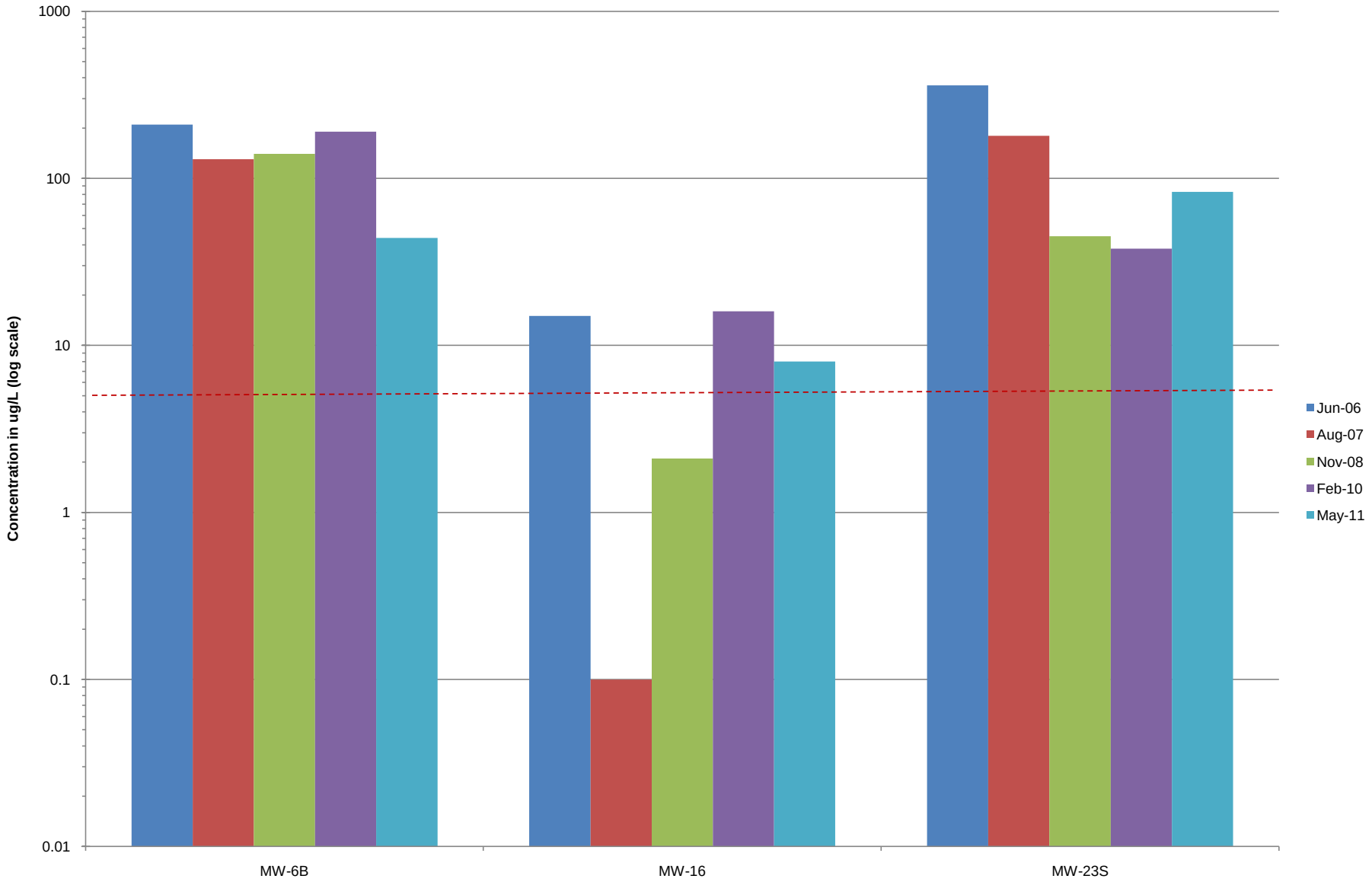


Figure 6
Trichloroethene Concentrations in Selected Monitoring Wells
ServAll Laundry Site (1-52-077)



Class GA criterion is 5 ug/L
ND values set to 0.1 for plotting purposes

Figure 7
Cis-1,2-Dichloroethene in Selected Monitoring Wells
ServAll Laundry Site (1-52-077)



Class GA criterion is 5 ug/L
ND values set to 0.1 for plotting purposes

Compound	Jun-06 U	Aug-07 U	Nov-08 U	Feb-10 U	May-11 U	May-11 F
Chromium	NA	NA	***624*** *	***901***	***595***	17.4 B
Iron	NA	NA	***4,610***	***4,800***	***6,160***	81 B
Lead	NA	NA	14.4	***29.3***	***29.8***	ND
Manganese	NA	NA	***447***	128	121	ND
Nickel	NA	NA	***540***	***121***	***110*** E	55.7
Sodium	NA	NA	6,730	***22,300***	8,260	7,560

MW-3B

Compound	Jun-06 U	Aug-07 U	Nov-08 U	Feb-10 U	May-11 U	May-11 F
Antimony	ND	ND	***5.1*** B	ND	ND	ND
Cadmium	ND	1.4 B	***5.9*** *E	***6.8***	3.3 B	ND
Chromium	***55.8***	***92.9***	36.3 *	***169***	***166***	2.5 B
Iron	***1,070***	***911***	***3,040***	***13,900***	***14,100***	40 B
Lead	ND	3.6 B	***33.1***	***79.8***	***84***	ND
Manganese	143	264	***1,840***	***2,580***	***1,040***	39 B
Sodium	***129,000***	1,610	9,900	***64,700***	***60,000***	***54,400***
Thallium	ND	ND	ND	***16.7*** B	ND	ND

MW-3A

Compound	Jun-06 U	Aug-07 U	Nov-08 U	Feb-10 U	May-11 U	May-11 F
Cadmium	NA	NA	***8.8*** *E	***43.7***	***17.3***	***8.8***
Chromium	NA	NA	***113*** *	***326***	***434***	7.3 B
Iron	NA	NA	***3,120***	***2,030***	***2,790***	ND
Manganese	NA	NA	***396***	***325***	***465***	88.4
Nickel	NA	NA	***1,390***	72	70 E	21 B
Sodium	NA	NA	14,600	***30,200***	***29,900***	***27,800***

MW-2

Compound	Feb-10 U
Iron	***673***
Sodium	***47,400***

MW-1

Compound	Jun-06 U	Apr-07 U	Aug-07 U	Nov-08 U	Feb-10 U	May-11 U	May-11 F
Chromium	***80.5***	***79.8***	***1,370***	***116*** *	***201***	***437***	ND
Iron	***934***	***483***	***7,140***	***49,400***	***26,900***	***37,600***	***31,100***
Manganese	209	219	***3,550***	***1,830***	***2,410***	***1,290***	***1,000***
Nickel	39.1 B	***127***	***135***	49 B	37.5 B	59.9 E	6.7 B
Sodium	13,400	14,700	***43,300***	***59,200***	***32,900***	***31,800***	***35,600***
Thallium	***1.4 B***	ND	ND	ND	***14*** B	ND	ND

MW-5

Compound	Jun-06 U	Apr-07 U	Aug-07 U	Nov-08 U	Feb-10 U	May-11 U	May-11 F
Antimony	ND	***9.4 B***	ND	ND	ND	ND	ND
Cadmium	0.73 B	1.4 B	2.6 B	***6.1*** *E	2.6 B	1.3 B	ND
Chromium	***534***	***337***	***382***	***321*** *	***343***	***552***	33.2
Iron	***1,710***	***1,970***	***2,970***	***3,280***	***3,150***	***5,060***	ND
Manganese	181	***1,280***	***1,240***	***1,390***	***599***	***1,540***	***417***
Nickel	***240***	***565***	***702***	***1,860***	***103***	***147*** E	10 B
Sodium	13,400	***33,800***	***39,300***	***39,000***	***85,500***	***133,000***	***128,000***

MW-4

Compound	Jun-06 U	Apr-07 U	Aug-07 U	Nov-08 U	Feb-10 U	May-11 U	May-11 F
Antimony	ND	***37.1***	ND	ND	ND	ND	ND
Chromium	***607***	***1,280***	***639***	***88.8*** *	***340***	***775***	12.8 B
Iron	***3,780***	***6,330***	***4,410***	***4,200***	***4,380***	***28,500***	117 B
Lead	4.1 B	16.7	4.3 B	***25.9***	***27.8***	***78.9***	ND
Manganese	***7,140***	***3,890***	***6,410***	***3,250***	***346***	***381***	44 B
Nickel	***160***	***273***	***1,130***	***196***	83.1	***237*** E	31.5 B
Sodium	***59,600***	***39,600***	***31,600***	***8,730***	***92,200***	***63,400***	***62,000***
Thallium	***32.3***	ND	ND	ND	ND	ND	ND

MW-6A

Compound	Jun-06 U	Aug-07 U	Nov-08 U	Feb-10 U	May-11 U	5/10/11 F
Antimony	***6.3*** B	ND	ND	ND	ND	ND
Cadmium	3.8 B	***48.1***	***53.6*** *E	***42.4***	***96.4***	***77***
Chromium	12.2 B	***263***	***90*** *	***330***	***819***	39.5
Iron	153 B	***1,470***	***1,140***	***2,150***	***4,840***	178 B
Manganese	108	272	***343***	***446***	294	241
Nickel	12 B	80	95.4	***452***	***345*** E	***309***
Sodium	***35,700***	***41,000***	***34,300***	***36,800***	***36,000***	***36,400***
Thallium	***1.7 B***	ND	ND	ND	ND	ND

MW-13

Compound	Jun-06 U	Aug-07 U	Nov-08 U	Feb-10 U	May-11 U	5/10/11 F
Chromium	49.9	***100***	***59.6*** *	***196***	***153***	0.64 B
Iron	***449***	***1,170***	***821***	***1,200***	***1,730***	ND
Sodium	***60,500***	***31,700***	***70,400***	***76,300***	***82,800***	***84,400***
Thallium	***1.3 B***	***2.8***	ND	ND	ND	ND

MW-14

Compound	Jun-06 U	Aug-07 U	Nov-08 U	Feb-10 U	May-11 U	5/10/11 F
Antimony	1.8 B	ND	***6.2*** B	ND	ND	ND
Chromium	***1,130***	***1,730***	***1,170*** *	***723***	***1,070***	7 B
Iron	***2,810***	***7,040***	***4,720***	***3,730***	***6,020***	ND
Manganese	***746***	***512***	***600***	***498***	***375***	298
Nickel	***1,290***	***130***	***519***	53.2	31.1 BE	13.3 B
Sodium	***62,500***	***42,000***	***40,100***	***62,700***	***41,800***	***40,000***
Thallium	***5 B***	ND	ND	ND	ND	ND

MW-12

Compound	Jun-06 U	Aug-07	Nov-08 U	Feb-10	May-11 U	5/10/11 F
Chromium	***50.1***	NA	8.9 B*	NA	NA	NA
Iron	***1,510***	NA	***1,440***	NA	NA	NA
Sodium	***23,700***	NA	15,500	NA	NA	NA

MW-11

Compound	Jun-06 U	Aug-07 U	Nov-08 U	Feb-10 U	May-11 U	5/10/11 F
Antimony	ND	***7.5 B***	ND	ND	ND	ND
Cadmium	ND	3.3 B	***9.4*** *E	1.9 B	2 B	ND
Iron	133 B	247	***544***	272	***462***	ND
Manganese	***1,570***	***1,370***	***1,230***	***1,420***	***1,490***	***1,130***
Sodium	***28,700***	***35,200***	***25,500***	***23,500***	***29,900***	***30,100***
Thallium	***7.8 B***	ND	ND	***8.6 B***	ND	ND

MW-23S

Compound	Jun-06 U	Aug-07 U	Nov-08 U	Feb-10 U	May-11 U	5/10/11 F
Antimony	ND	***4.7*** B	ND	ND	ND	ND
Iron	***3,800***	***563***	82.5 B	***576***	***637***	ND
Manganese	109	77.9	15.7 B	33.1 B	***1,470***	***902***
Sodium	16,200	16,500	16,600	***29,200***	16,400	16,100
Thallium	***1.3 B***	ND	ND	ND	ND	ND

MW-23D

Compound	Jun-06 U	Aug-07 U	Nov-08 U	Feb-10 U	May-11 U	5/10/11 F
Antimony	ND	***7.9 B***	ND	ND	ND	ND
Beryllium	ND	0.24 B	0.35 B	0.37 B	1.5 B	***5.7***
Cadmium	0.75 B	0.91 B	2.6 B	0.88 B*E	1.7 B	***5.2***
Chromium	***62.2***	***133***	***143***	46.6 *	***225***	***1,520***
Copper	17.5 B	37.2	150	96.6	143	***500***
Iron	***1,950***	***5,500***	***9,130***	***5,950***	***28,500***	***146,000***
Lead	2.8 B	9.1 B	18.5	9 B	***83.9***	***316***
Manganese	81.6	***344***	***429***	***540***	269	***1,500***
Nickel	46.1 B	51.3	47 B	12.5 B	70.4	***186*** E
Sodium	17,800	***28,200***	***25,900***	15,100	17,400	18,200

MW-6B

Compound	Jun-06 U	Aug-07 U	Nov-08 U	Feb-10 U	May-11 U	5/10/11 F
Antimony	ND	***7.5 B***	ND	ND	ND	ND
Cadmium	ND	3.3 B	***9.4*** *E	1.9 B	2 B	ND
Iron	133 B	247	***544***	272	***462***	ND
Manganese	***1,570***	***1,370***	***1,230***	***1,420***	***1,490***	***1,130***
Sodium	***28,700***	***35,200***	***25,500***	***23,500***	***29,900***	***30,100***
Thallium	***7.8 B***	ND	ND	***8.6 B***	ND	ND

MW-23S

Compound	Jun-06 U	Aug-07 U	Nov-08 U	Feb-10 U	May-11 U	5/10/11 F
Antimony	ND	***4.7*** B	ND	ND	ND	ND
Iron	***3,800***	***563***	82.5 B	***576***	***637***	ND
Manganese	109	77.9	15.7 B	33.1 B	***1,470***	***902***
Sodium	16,200	16,500	16,600	***29,200***	16,400	16,100
Thallium	***1.3 B***	ND	ND	ND	ND	ND

MW-23D

Compound	Jun-06 U	Aug-07 U	Nov-08 U	Feb-10 U	May-11 U	5/10/11 F
Chromium	***1,660***	***666***	***184*** *	***326***	***320***	38.5
Iron	***7,270***	***5,520***	***2,440***	***1,460***	***2,670***	***1,350***
Nickel	***125***	***110***	90.1	62.8	73.4 E	64.1
Sodium	***24,500***	3,080	***33,600***	***34,300***	***91,300***	***85,200***

MW-16

LEGEND:

MW-14 — EXISTING MONITORING WELLS

MW-10 — DAMAGED OR MISSING MONITORING WELL

Note:
All results are shown in micrograms per liter (ug/L)
BOLD: Results Exceeds Criterion
B: Estimated value, metals
J: Estimated value, VOCs
D: Dilution

Compound	NYSDEC Criteria
Antimony	3
Beryllium	3
Cadmium	5
Chromium	50
Copper	200
Iron	300
Lead	25
Manganese	300
Nickel	100
Sodium	20,000
Thallium	0.5

U - Unfiltered
F - Filtered

GRAPHIC SCALE
1600 800 0 800 1600

Prepared by : AECOM

SUBMITTED BY : PK

DRAWN BY : SC

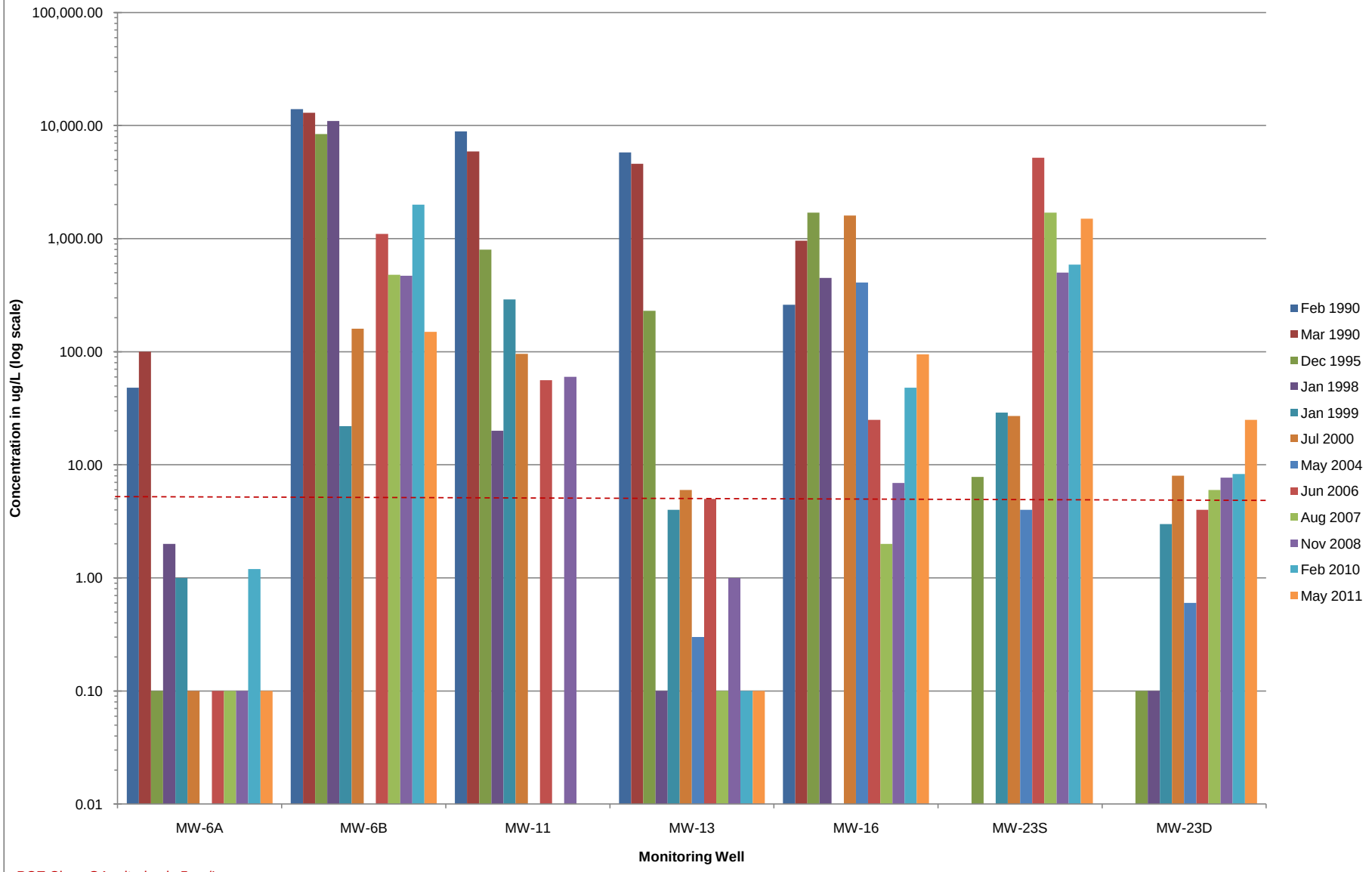
APPROVED BY : PK

MULTI SITE G - SERVALL LAUNDRY SITE
SITE NO. 1-52-077

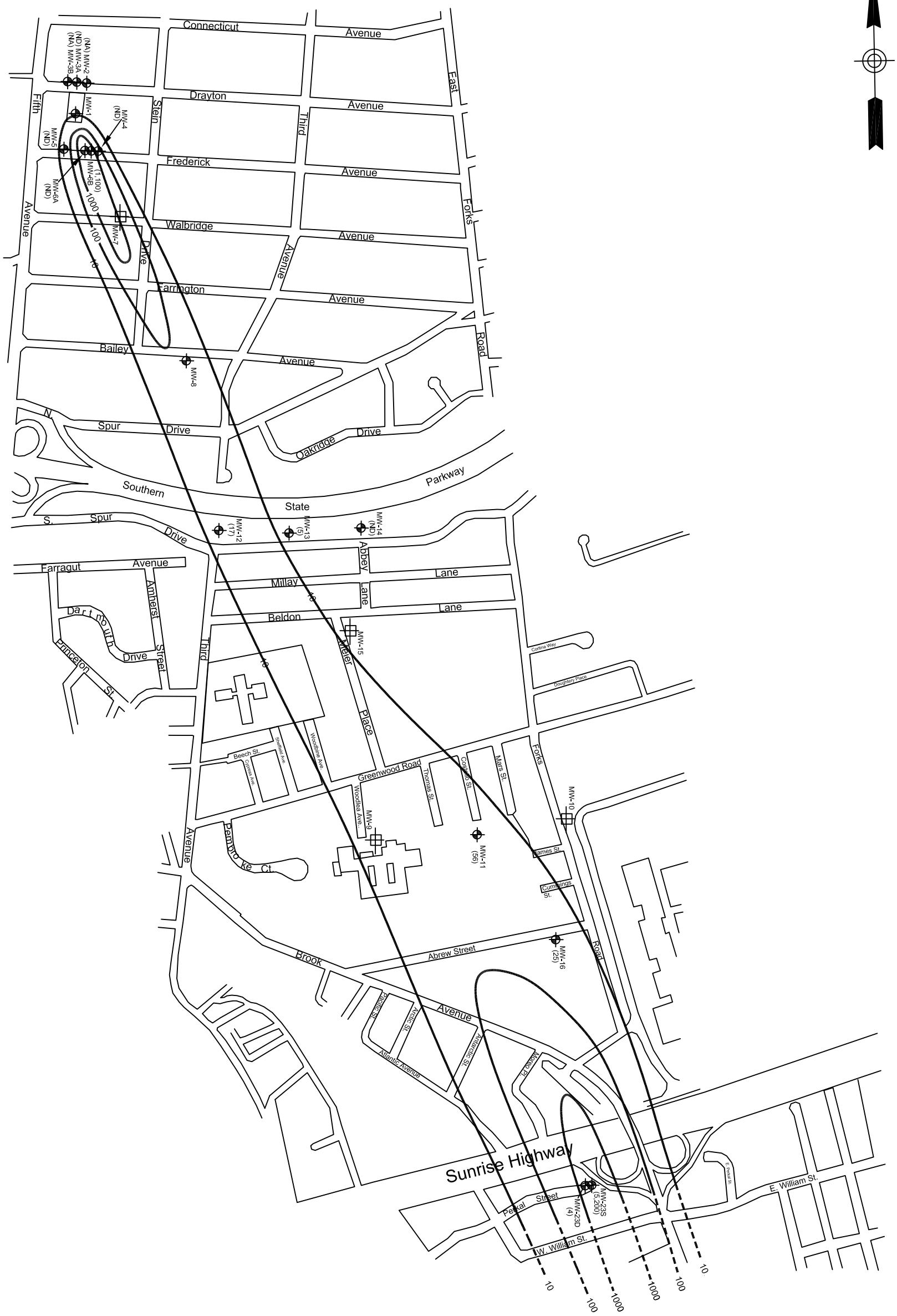
SUMMARY OF TAL METALS IN GROUNDWATER

DATE : JUNE 2011 | SCALE : AS SHOWN | DRAWING NO. : 8

FIGURE 9
HISTORIC PCE CONCENTRATIONS IN SELECTED MONITORING WELLS
SERVALL LAUNDRY SITE (1-52-077)



PCE Class GA criterion is 5 ug/L
ND values set to 0.1 fto differentiate from "not collected"



LEGEND:

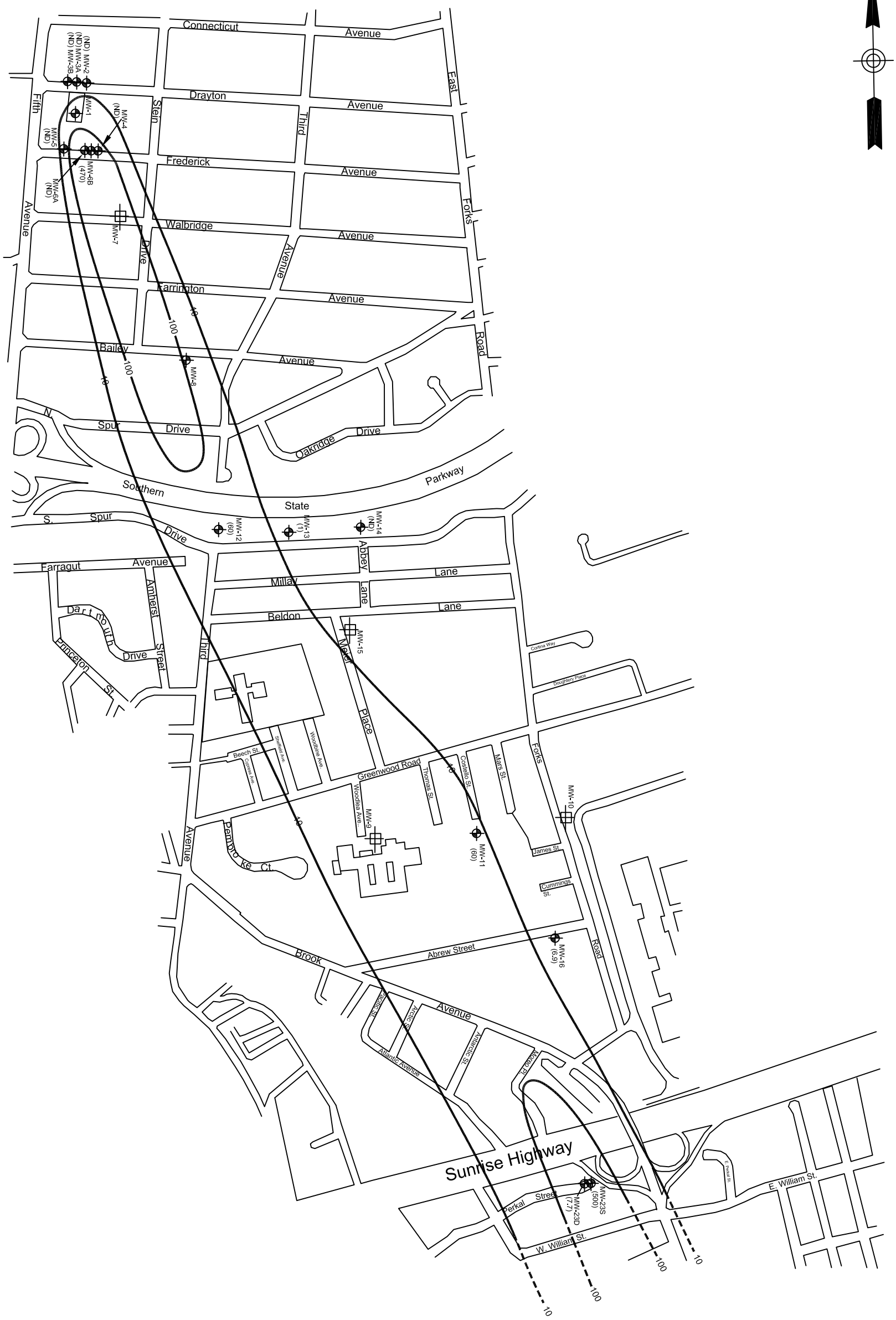
MW-16	EXISTING MONITORING WELLS
MW-10	DAMAGED OR MISSING MONITORING WELL
(60)	PCE CONCENTRATION IN ug/L
10	PCE ISOCONCENTRATION LINE (ug/L), BASED ON RESULTS FROM MW-2, MW-3A, MW-3B, MW-4, MW-5, MW-6A, MW-6B, MW-11, MW-12, MW-13, MW-14, MW-16 MW-23S, AND MW-23D
NA	NOT SAMPLED
ND	NOT DETECTED
PCE	CLASS GA CRITERIA IS 5 ug/L

GRAPHIC SCALE

1600 800 0 800 1600

Prepared by : AECOM

SUBMITTED BY : PK/jk	MULTI SITE G - SERVALL LAUNDRY SITE SITE NO. 1-52-026
DRAWN BY : SC	**PCE ISOCONCENTRATION MAP JUNE 2006**
APPROVED BY : PK	DATE : JANUARY 2012 / SCALE : AS SHOWN / DRAWING NO. : 10A



LEGEND:

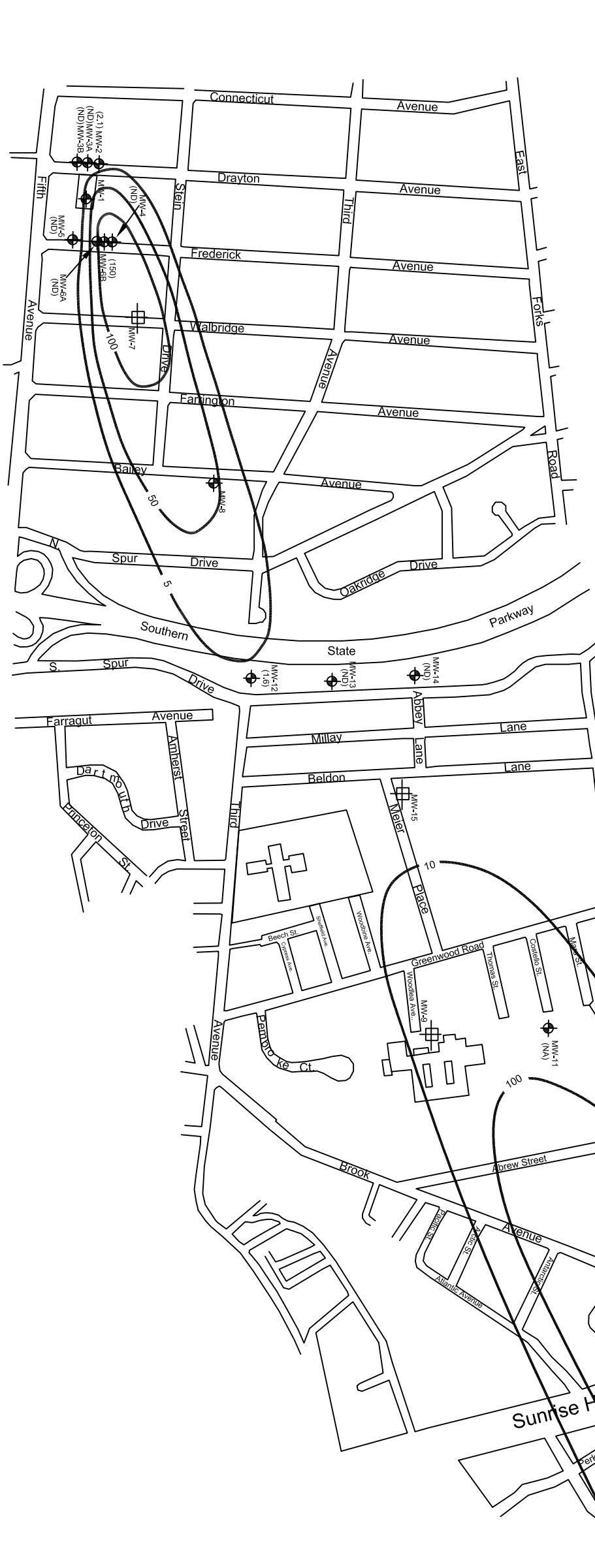
MW-16	EXISTING MONITORING WELLS
MW-10	DAMAGED OR MISSING MONITORING WELL
(60)	PCE CONCENTRATION IN ug/L
10	PCE ISOCONCENTRATION LINE (ug/L), BASED ON RESULTS FROM MW-2, MW-3A, MW-3B, MW-4, MW-5, MW-6A, MW-6B, MW-11, MW-12, MW-13, MW-14, MW-16 MW-23S, AND MW-23D
NA	NOT SAMPLED
ND	NOT DETECTED
PCE	CLASS GA CRITERIA IS 5 ug/L

GRAPHIC SCALE

1600 800 0 800 1600

Prepared by : AECOM

SUBMITTED BY : PK/jk	MULTI SITE G - SERVALL LAUNDRY SITE SITE NO. 1-52-026
DRAWN BY : SC	**PCE ISOCONCENTRATION MAP NOVEMBER 2008**
APPROVED BY : PK	DATE : JANUARY 2012 / SCALE : AS SHOWN / DRAWING NO. : 10B



LEGEND:

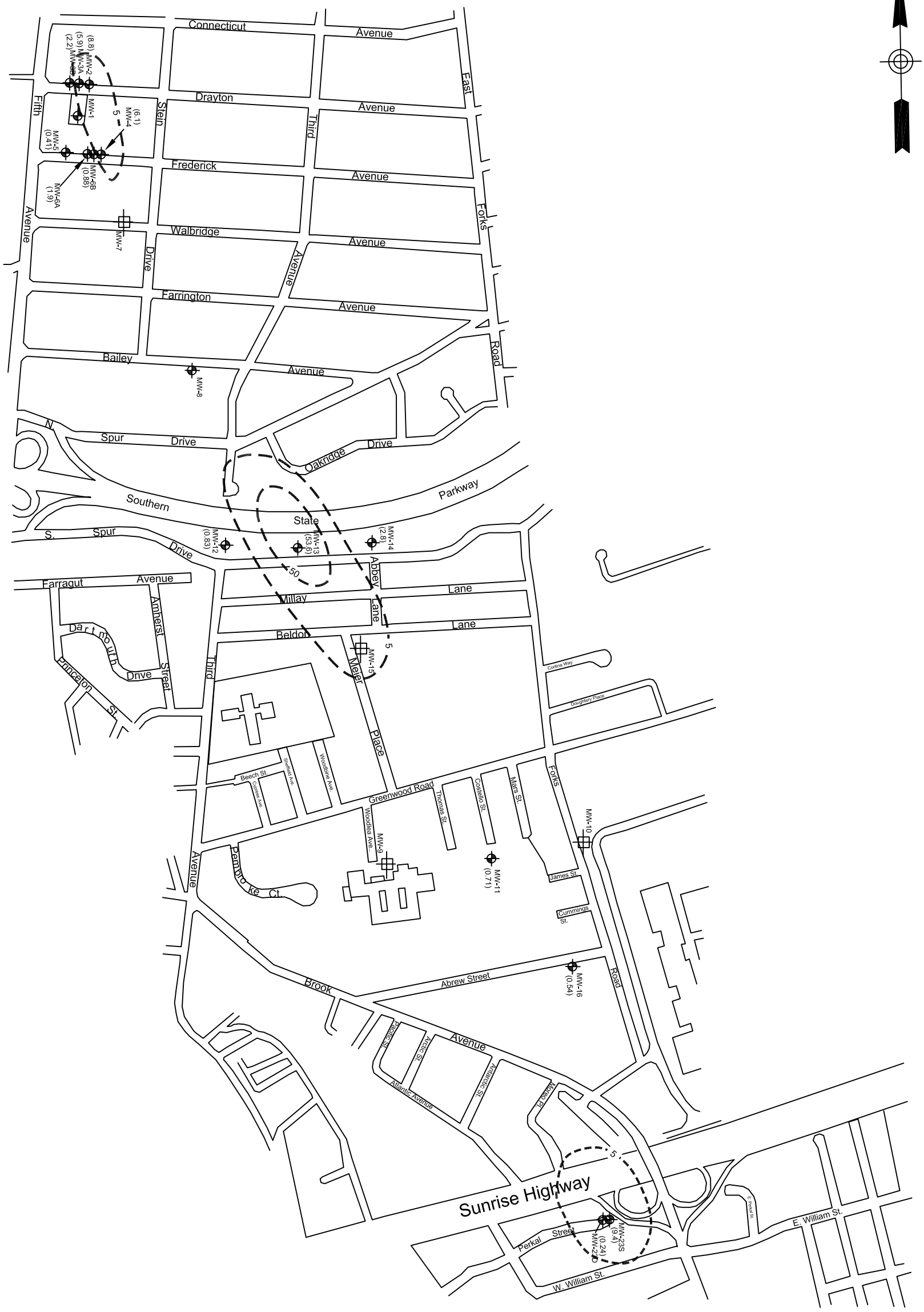
MW-16	EXISTING MONITORING WELLS
MW-10	DAMAGED OR MISSING MONITORING WELL
(60)	PCE CONCENTRATION IN ug/L
10	PCE ISOCONCENTRATION LINE (ug/L), BASED ON RESULTS FROM MW-2, MW-3A, MW-3B, MW-4, MW-5, MW-6A, MW-6B, MW-11, MW-12, MW-13, MW-14, MW-16 MW-23S, AND MW-23D
NA	NOT SAMPLED
ND	NOT DETECTED
PCE	CLASS GA CRITERIA IS 5 ug/L

GRAPHIC SCALE

1600 800 0 800 1600

Prepared by : AECOM

SUBMITTED BY : PK	MULTI SITE G - SERVALL LAUNDRY SITE SITE NO. 1-52-026
DRAWN BY : SC	**PCE ISOCONCENTRATION MAP MAY 2011**
APPROVED BY : PK	DATE : JANUARY 2012 / SCALE : AS SHOWN / DRAWING NO. : 10C



LEGEND:

MW-16 — EXISTING MONITORING WELLS

MW-10 — DAMAGED OR MISSING MONITORING WELL

(0.54) — CADMIUM CONCENTRATION IN ug/L (UNFILTERED)

5 — CADMIUM ISOCONCENTRATION LINE (ug/L), DASHED WHERE INFERRED. CONTOURS ARE BASED ON RESULTS FROM MW-2, MW-3A, MW-3B, MW-4, MW-5, MW-6A, MW-6B, MW-11, MW-12, MW-13, MW-14, MW-16, MW-23S, AND MW-23D.

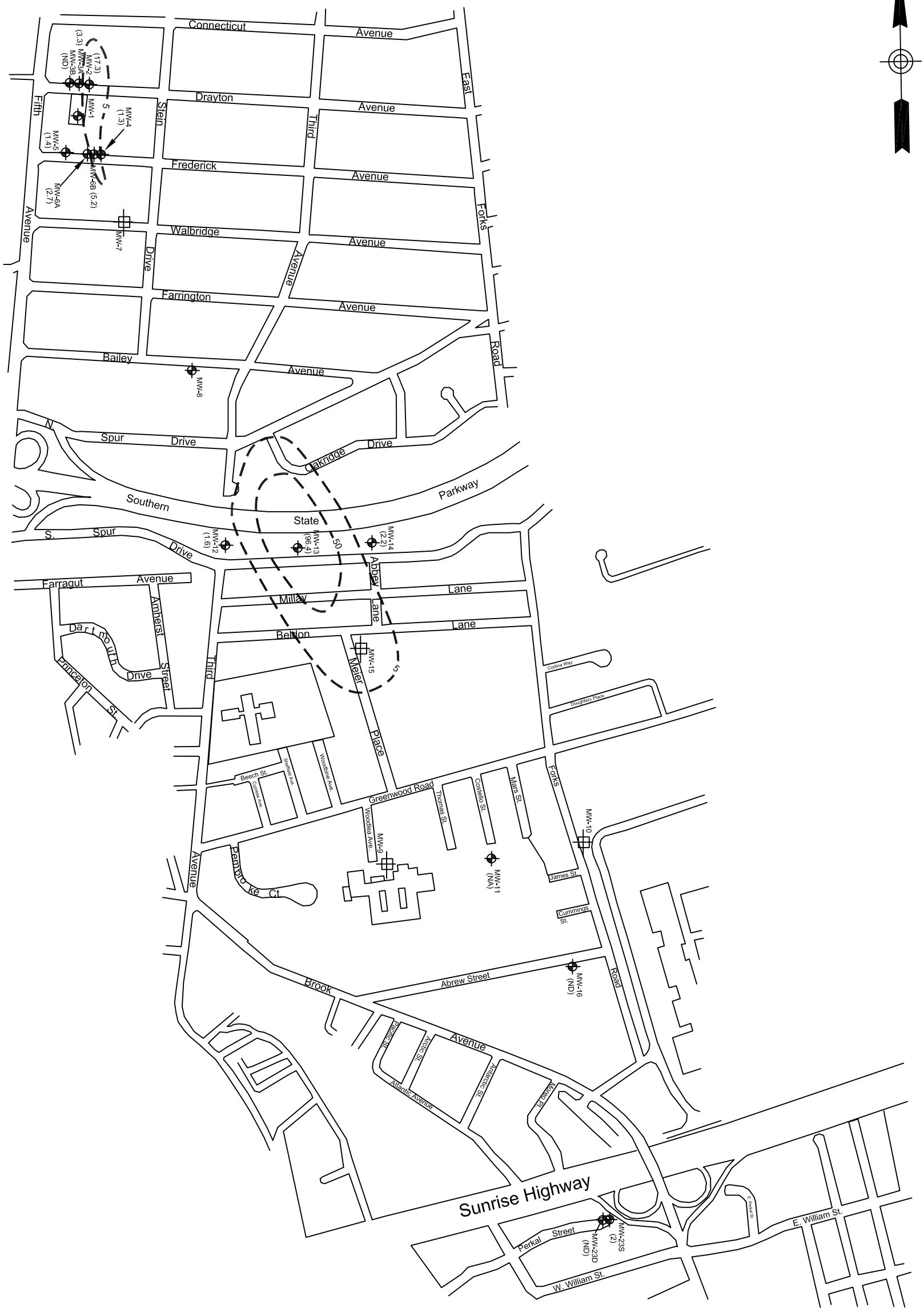
CADMIUM CLASS GA CRITERIA IS 5 ug/L

GRAPHIC SCALE

1600 800 0 800 1600

Prepared by : AECOM

SUBMITTED BY : PK/jk	MULTI SITE G - SERVALL LAUNDRY SITE SITE NO. 1-52-026
DRAWN BY : SC	**CADMIUM IN GROUNDWATER ISOCONCENTRATION MAP NOVEMBER 2008**
APPROVED BY : PK	DATE : JANUARY 2012 / SCALE : AS SHOWN / DRAWING NO. : 11A



LEGEND:

- MW-16 — EXISTING MONITORING WELLS
- MW-10 — DAMAGED OR MISSING MONITORING WELL
- (96.4) — CADMIUM CONCENTRATION IN ug/L (UNFILTERED)
- ND — NOT DETECTED
- 5 — CADMIUM ISOCONCENTRATION LINE (ug/L), DASHED WHERE INFERRED. CONTOURS ARE BASED ON RESULTS FROM MW-2, MW-3A, MW-3B, MW-4, MW-5, MW-6A, MW-6B, MW-11, MW-12, MW-13, MW-14, MW-16, MW-23S, AND MW-23D.

CADMIUM CLASS GA CRITERIA IS 5 ug/L

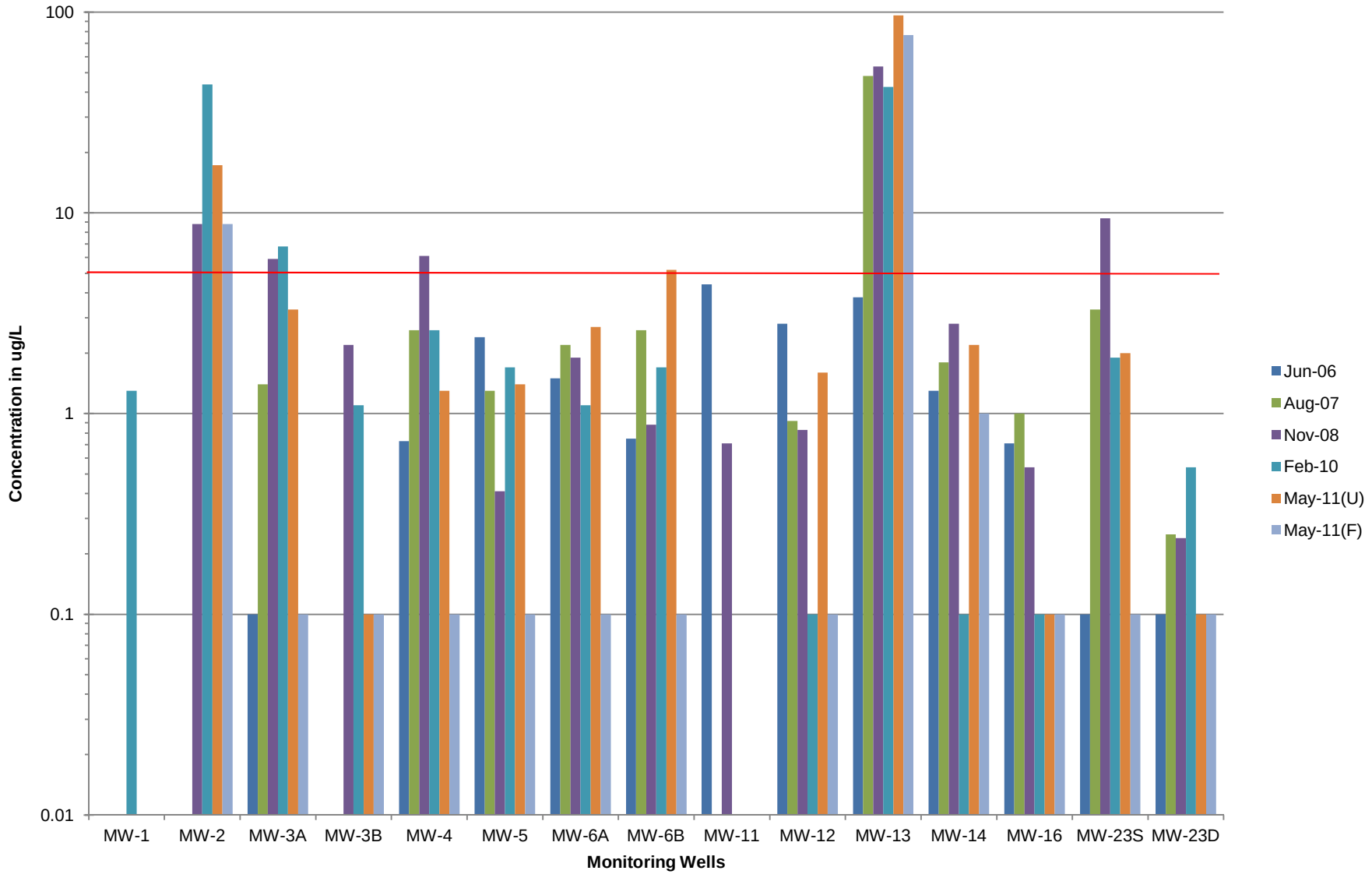
GRAPHIC SCALE

1600 800 0 800 1600

Prepared by : AECOM

SUBMITTED BY : PK/jk	MULTI SITE G - SERVALL LAUNDRY SITE SITE NO. 1-52-026
DRAWN BY : SC	**CADMIUM IN GROUNDWATER ISOCONCENTRATION MAP MAY 2011**
APPROVED BY : PK	DATE : JANUARY 2012 / SCALE : AS SHOWN / DRAWING NO. : 11B

Figure 12
Cadmium Concentrations in Selected Monitoring Wells
ServAll Laundry Site (1-52-026)



Class GA criterion is 5 ug/L
ND values set to 0.1 for plotting purposes, NA values are blank

Appendix A

NYSDEC Monitoring Well Field Inspection Logs

SITE NAME: **ServAll Laundry Site**

SITE ID.: 1-52-077
INSPECTOR: JC, JB

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 5/10 1014
WELL ID.: MW-2

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? NYTM X 193,973.43 NYTM Y 2,204,502.95 See Report
PDOP Reading from Trimble pathfinder: Satelites:
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?		X
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: N/A

	YES	NO
SURFACE SEAL PRESENT?	X	
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)	X	
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	X	

Cap does not close properly. Lid is not flush with casing.

HEADSPACE READING (ppm) AND INSTRUMENT USED PID 0.0
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)
PROTECTIVE CASING MATERIAL TYPE: PLASTIC
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): ~4"

	YES	NO
LOCK PRESENT?		X
LOCK FUNCTIONAL?		X
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)		X
WELL MEASURING POINT VISIBLE?		X

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): 82.15
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 23.19
MEASURE WELL DIAMETER (Inches): 2
WELL CASING MATERIAL: STEEL
PHYSICAL CONDITION OF VISIBLE WELL CASING: GOOD
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE N/A
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES UNK

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

MW-2 is on the edge of a sidewalk next to Drayton Ave. There are no overhead lines.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

MW-2 is located on the edge of the sidewalk next to Drayton Ave. adjacent to an empty parking lot.While traffic does present some concern, proper cones and usage of vehicle ensures safe work zone.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

Across the street from MW-2 is a dirt lot with two (apparently) broken down tractor trailers.

REMARKS:

MONITORING WELL INSPECTION LOG
PHOTO



SITE NAME: **ServAll Laundry Site**

SITE ID.: 1-52-077
INSPECTOR: JC, JB

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 5/10 1019
WELL ID.: MW-3A

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? NYTM X 194,188.77 NYTM Y 2,204,423.40 See Report
PDOP Reading from Trimble pathfinder: Satelites:
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?		X
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

	YES	NO
SURFACE SEAL PRESENT?		X
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)		X
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)		X

Cap does not close properly. Lid is not flush with casing.

HEADSPACE READING (ppm) AND INSTRUMENT USED PID	0.0
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	N/A
PROTECTIVE CASING MATERIAL TYPE:	N/A
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	N/A

	YES	NO
LOCK PRESENT?		X
LOCK FUNCTIONAL?		X
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)		X
WELL MEASURING POINT VISIBLE?	X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	115.01
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	23.02
MEASURE WELL DIAMETER (Inches):	2
WELL CASING MATERIAL:	STEEL
PHYSICAL CONDITION OF VISIBLE WELL CASING:	GOOD
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE	N/A
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES	UNK

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

MW-3A is on the edge of a sidewalk next to Drayton Ave. There are no overhead lines.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

MW-3A is located on the edge of the sidewalk next to Drayton Ave. adjacent to an infrequently used parking lot.While traffic does present some concern, proper cones and usage of vehicle ensures safe work zone.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

Across the street from MW-3A is a dirt lot with two (apparently) broken down tractor trailers.

REMARKS:

PHOTO



SITE NAME: **ServAll Laundry Site**

SITE ID.: 1-52-077
INSPECTOR: JC, JB

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 5/10 1024
WELL ID.: MW-3B

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? NYTM X 198,189.80 NYTM Y 2,204,441.51 See Report
PDOP Reading from Trimble pathfinder: Satelites:
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?		X
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

	YES	NO
SURFACE SEAL PRESENT?		X
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)		X
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)		X

Cap does not close properly. Lid is not flush with casing.

HEADSPACE READING (ppm) AND INSTRUMENT USED PID	0.0
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	N/A
PROTECTIVE CASING MATERIAL TYPE:	N/A
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	N/A

	YES	NO
LOCK PRESENT?		X
LOCK FUNCTIONAL?		X
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)		X
WELL MEASURING POINT VISIBLE?	X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	81.08
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	23.20
MEASURE WELL DIAMETER (Inches):	2
WELL CASING MATERIAL:	STEEL
PHYSICAL CONDITION OF VISIBLE WELL CASING:	GOOD
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE	N/A
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES	UNK

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

MW-3B is on the edge of a sidewalk next to Drayton Ave. There are no overhead lines.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

MW-3B is located on the edge of the sidewalk next to Drayton Ave. adjacent to an infrequently used parking lot.While traffic does present some concern, proper cones and usage of vehicle ensures safe work zone.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

Across the street from MW-3B is a dirt lot with two (apparently) broken down tractor trailers.

REMARKS:

MONITORING WELL INSPECTION LOG
PHOTO



SITE NAME: **ServAll Laundry Site**

SITE ID.: 1-52-077
INSPECTOR: JC, JB

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 5/10 1046
WELL ID.: MW-4

	YES	NO
WELL VISIBLE? (If not, provide directions below)		X

WELL COORDINATES? NYTM X 193,713.55 NYTM Y 2,204,672.09 See Report
PDOP Reading from Trimble pathfinder: Satelites:
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?		X
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: N/A

	YES	NO
SURFACE SEAL PRESENT?	X	
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)	X	
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)		X

Cap does not close properly. Lid is not flush with casing.

HEADSPACE READING (ppm) AND INSTRUMENT USED PID	0.0
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	N/A
PROTECTIVE CASING MATERIAL TYPE:	N/A
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	N/A

	YES	NO
LOCK PRESENT?		X
LOCK FUNCTIONAL?		X
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)		X
WELL MEASURING POINT VISIBLE?	X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	83.59
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	22.57
MEASURE WELL DIAMETER (Inches):	2
WELL CASING MATERIAL:	STEEL
PHYSICAL CONDITION OF VISIBLE WELL CASING:	GREAT
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE	N/A
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES	UNK

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

MW-4 is located on the side of Frederick Ave., there are no overhead lines.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

MW-4 is located on the edge of a residential parking spot next to Frederick Ave. While traffic does present some concern, proper cones and usage of vehicle ensures safe work zone.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

None present.

REMARKS:

MONITORING WELL INSPECTION LOG
PHOTO



SITE NAME: **ServAll Laundry Site**

SITE ID.: 1-52-077
INSPECTOR: JC, JB

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 5/10 1100
WELL ID.:

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? NYTM X 193,738.12 NYTM Y 2,204,418.09 See Report
PDOP Reading from Trimble pathfinder: Satelites:
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?		X
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: N/A

	YES	NO
SURFACE SEAL PRESENT?		X
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)		X
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)		X

Cap does not close properly. Lid is not flush with casing.

HEADSPACE READING (ppm) AND INSTRUMENT USED: 0.0
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable): N/A
PROTECTIVE CASING MATERIAL TYPE: N/A
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): N/A

	YES	NO
LOCK PRESENT?		X
LOCK FUNCTIONAL?		X
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)		X
WELL MEASURING POINT VISIBLE?	X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): 26.65
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 23.29
MEASURE WELL DIAMETER (Inches): 2
WELL CASING MATERIAL: STEEL
PHYSICAL CONDITION OF VISIBLE WELL CASING: GOOD
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE: N/A
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES: N/A

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

MW-5 is located on the side of Frederick Ave., there are no overhead lines.

MW-5 is located on the edge of a residential parking spot next to Frederick Ave. While traffic does present some concern, proper cones and usage of vehicle ensures safe work zone.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

None present.

REMARKS:

MONITORING WELL INSPECTION LOG
PHOTO



SITE NAME: **ServAll Laundry Site**

SITE ID.: 1-52-077
INSPECTOR: JC, JB

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 5/10 1051
WELL ID.: MW-6A

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? NYTM X 193,723.62 NYTM Y 2,204,573.71 See Report
PDOP Reading from Trimble pathfinder: Satelites:
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?		X
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: N/A

	YES	NO
SURFACE SEAL PRESENT?		X
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)		X
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)		X

Cap does not close properly. Lid is not flush with casing.

HEADSPACE READING (ppm) AND INSTRUMENT USED PID	0.0
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	N/A
PROTECTIVE CASING MATERIAL TYPE:	N/A
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	N/A

	YES	NO
LOCK PRESENT?		X
LOCK FUNCTIONAL?		X
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)		X
WELL MEASURING POINT VISIBLE?	X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	59.41
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	23.28
MEASURE WELL DIAMETER (Inches):	2
WELL CASING MATERIAL:	STEEL
PHYSICAL CONDITION OF VISIBLE WELL CASING:	GOOD
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE	N/A
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES	UNK

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

MW-6A is located on the side of Frederick Ave., there are no overhead lines.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

MW-6A is located on the edge of a residential parking spot next to Frederick Ave. While traffic does present some concern, proper cones and usage of vehicle ensures safe work zone.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

None present.

REMARKS:

MONITORING WELL INSPECTION LOG
PHOTO



SITE NAME: **ServAll Laundry Site**

SITE ID.: 1-52-077
INSPECTOR: JC, JB

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 5/10 1055
WELL ID.: MW-6B

	YES	NO
WELL VISIBLE? (If not, provide directions below)		

WELL COORDINATES? NYTM X 193,722.77 NYTM Y 2,204,566.29 See Report
PDOP Reading from Trimble pathfinder: Satelites:
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?		X
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: N/A

	YES	NO
SURFACE SEAL PRESENT?		X
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)		X
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)		X

Cap does not close properly. Lid is not flush with casing.

HEADSPACE READING (ppm) AND INSTRUMENT USED PID 0.0
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable) N/A
PROTECTIVE CASING MATERIAL TYPE: N/A
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): N/A

	YES	NO
LOCK PRESENT?		X
LOCK FUNCTIONAL?		X
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)		X
WELL MEASURING POINT VISIBLE?	X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): 28.47
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 23.62
MEASURE WELL DIAMETER (Inches): 2
WELL CASING MATERIAL: STEEL
PHYSICAL CONDITION OF VISIBLE WELL CASING: GOOD
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE N/A
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES UNK

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

MW-6B is located on the side of Frederick Ave., there are no overhead lines.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

MW-6B is located on the edge of a residential parking spot next to Frederick Ave. While traffic does present some concern, proper cones and usage of vehicle ensures safe work zone.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

None present.

REMARKS:

MONITORING WELL INSPECTION LOG
PHOTO



SITE NAME: **ServAll Laundry Site**

SITE ID.: 1-52-077
INSPECTOR: JC, JB

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 5/10 1137
WELL ID.: MW-11

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? NYTM X 188,889.82 NYTM Y 2,207,272.76 See Report
PDOP Reading from Trimble pathfinder: Satelites:
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?		X
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: N/A

	YES	NO
SURFACE SEAL PRESENT?		X
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below		X
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)		X

Cap does not close properly. Lid is not flush with casing.

HEADSPACE READING (ppm) AND INSTRUMENT USED PID	0.0
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	N/A
PROTECTIVE CASING MATERIAL TYPE:	N/A
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	N/A

	YES	NO
LOCK PRESENT?		X
LOCK FUNCTIONAL?		X
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)		X
WELL MEASURING POINT VISIBLE?	X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	0.29
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	N/A
MEASURE WELL DIAMETER (Inches):	2
WELL CASING MATERIAL:	STEEL
PHYSICAL CONDITION OF VISIBLE WELL CASING:	N/A
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE	N/A
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES	UNK

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

MW-11 is located in an open field.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

MW-11 is located in an open field behind a school, it is far enough from the treeline to expect little interference with roots or branches.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

None present.

REMARKS:

MONITORING WELL INSPECTION LOG
PHOTO



SITE NAME: **ServAll Laundry Site**

SITE ID.: 1-52-077
INSPECTOR: JC, JB

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 5/10 1106
WELL ID.: MW-12

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? NYTM X 191,051.70 NYTM Y 2,205,475.34 See Report
PDOP Reading from Trimble pathfinder: Satelites:
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?		X
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: N/A

	YES	NO
SURFACE SEAL PRESENT?		X
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)		X
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)		X

Cap does not close properly. Lid is not flush with casing.

HEADSPACE READING (ppm) AND INSTRUMENT USED PID	0.0
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	N/A
PROTECTIVE CASING MATERIAL TYPE:	N/A
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	N/A

	YES	NO
LOCK PRESENT?		X
LOCK FUNCTIONAL?		X
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)		X
WELL MEASURING POINT VISIBLE?	X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	89.11
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	15.60
MEASURE WELL DIAMETER (Inches):	2
WELL CASING MATERIAL:	STEEL
PHYSICAL CONDITION OF VISIBLE WELL CASING:	GOOD
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE	N/A
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES	UNK

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

MW-12 is near a treeline.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

MW-12 is off the side of the highway.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

None present.

REMARKS:

PHOTO



SITE NAME: **ServAll Laundry Site**

SITE ID.: 1-52-077
INSPECTOR: JC, JB

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 5/10 1109
WELL ID.: MW-13

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? NYTM X 190,990.06 NYTM Y 2,205,989.11 See Report
PDOP Reading from Trimble pathfinder: Satelites:
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?		X
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: N/A

	YES	NO
SURFACE SEAL PRESENT?		X
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)		X
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)		X

Cap does not close properly. Lid is not flush with casing.

HEADSPACE READING (ppm) AND INSTRUMENT USED PID	0.0
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	N/A
PROTECTIVE CASING MATERIAL TYPE:	N/A
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	N/A

	YES	NO
LOCK PRESENT?		X
LOCK FUNCTIONAL?		X
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)		X
WELL MEASURING POINT VISIBLE?	X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	96.48
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	15.97
MEASURE WELL DIAMETER (Inches):	2
WELL CASING MATERIAL:	STEEL
PHYSICAL CONDITION OF VISIBLE WELL CASING:	GOOD
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE	N/A
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES	UNK

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

MW-13 is near a treeline.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

MW-13 is off the side of the highway.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

None present.

REMARKS:

PHOTO



SITE NAME: **ServAll Laundry Site**

SITE ID.: 1-52-077
INSPECTOR: JC, JB

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 5/10 1113
WELL ID.: MW-14

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? NYTM X 191,009.26 NYTM Y 2,206,506.46 See Report
PDOP Reading from Trimble pathfinder: Satelites:
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?		X
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: N/A

	YES	NO
SURFACE SEAL PRESENT?		X
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)		X
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)		X

Cap does not close properly. Lid is not flush with casing.

HEADSPACE READING (ppm) AND INSTRUMENT USED PID	0.0
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	N/A
PROTECTIVE CASING MATERIAL TYPE:	N/A
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	N/A

	YES	NO
LOCK PRESENT?		X
LOCK FUNCTIONAL?		X
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)		X
WELL MEASURING POINT VISIBLE?	X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	93.58
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	16.25
MEASURE WELL DIAMETER (Inches):	2
WELL CASING MATERIAL:	STEEL
PHYSICAL CONDITION OF VISIBLE WELL CASING:	GOOD
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE	N/A
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES	UNK

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

MW-14 is near a treeline.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

MW-14 is off the side of the highway.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

None present.

REMARKS:

PHOTO



SITE NAME: **ServAll Laundry Site**

SITE ID.: 1-52-077
INSPECTOR: JC, JB

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 5/10 1154
WELL ID.: MW-16

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? NYTM X 188,111.44 NYTM Y 2,207,779.29 See Report
PDOP Reading from Trimble pathfinder: Satelites:
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?		X
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: N/A

	YES	NO
SURFACE SEAL PRESENT?		X
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)		X
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)		X

Cap does not close properly. Lid is not flush with casing.

HEADSPACE READING (ppm) AND INSTRUMENT USED PID	0.0
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	N/A
PROTECTIVE CASING MATERIAL TYPE:	N/A
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	N/A

	YES	NO
LOCK PRESENT?		X
LOCK FUNCTIONAL?		X
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)		X
WELL MEASURING POINT VISIBLE?	X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	93.86
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	11.68
MEASURE WELL DIAMETER (Inches):	2
WELL CASING MATERIAL:	STEEL
PHYSICAL CONDITION OF VISIBLE WELL CASING:	GOOD
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE	N/A
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES	UNK

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

MW-16 is on the side of Abrew St. there are no overhead lines.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

MW-16 is on the side of Abrew St., periodic traffic is a minor safety concern.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

None present.

REMARKS:

PHOTO



SITE NAME: **ServAll Laundry Site**

SITE ID.: 1-52-077
INSPECTOR: JC, JB

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 5/10 1201
WELL ID.: MW-23S

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? NYTM X 187,099.54 NYTM Y 2,208,295.49 See Report
PDOP Reading from Trimble pathfinder: Satelites:
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?	X	
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: MW-23S

	YES	NO
SURFACE SEAL PRESENT?	X	
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)	X	
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)		X

Cap does not close properly. Lid is not flush with casing.

HEADSPACE READING (ppm) AND INSTRUMENT USED PID	0.0
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	N/A
PROTECTIVE CASING MATERIAL TYPE:	N/A
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	N/A

	YES	NO
LOCK PRESENT?		X
LOCK FUNCTIONAL?		X
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)		X
WELL MEASURING POINT VISIBLE?	X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	69.30
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	5.67
MEASURE WELL DIAMETER (Inches):	2
WELL CASING MATERIAL:	STEEL
PHYSICAL CONDITION OF VISIBLE WELL CASING:	EXC.
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE	N/A
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES	UNK

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

MW-23S is on Perkal St, a Cul de Sac, overhead lines are not in position to interfere with a rig.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

MW-23S is on the edge of a low traffic Cul de Sac.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

Multiple cars parked to be repaired next door.

REMARKS:

PHOTO



SITE NAME: **ServAll Laundry Site**

SITE ID.: 1-52-077
INSPECTOR: JC, JB

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 5/10 1205
WELL ID.: MW-23D

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? NYTM X 187,101.72 NYTM Y 2,208,276.17 See Report
PDOP Reading from Trimble pathfinder: Satelites:
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?	X	
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: MW-23D

	YES	NO
SURFACE SEAL PRESENT?	X	
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)	X	
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)		X

Cap does not close properly. Lid is not flush with casing.

HEADSPACE READING (ppm) AND INSTRUMENT USED PID	0.0
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	N/A
PROTECTIVE CASING MATERIAL TYPE:	N/A
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	N/A

	YES	NO
LOCK PRESENT?		X
LOCK FUNCTIONAL?		X
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)		X
WELL MEASURING POINT VISIBLE?	X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	87.70
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	5.62
MEASURE WELL DIAMETER (Inches):	2
WELL CASING MATERIAL:	STEEL
PHYSICAL CONDITION OF VISIBLE WELL CASING:	EXC.
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE	N/A
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES	UNK

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

MW-23D is on Perkal St, a Cul de Sac, overhead lines are not in position to interfere with a rig.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

MW-23D is on the edge of a low traffic Cul de Sac.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

Multiple cars parked to be repaired next door.

REMARKS:

PHOTO



Appendix B

Monitoring Well Sampling Forms

AECOM

WELL NO. MW-2

WELL SAMPLING FORM	PROJECT: ServAll Laundry Site (1-52-077)	PROJECT No.: 60135736	SHEET: 1 OF 1
LOCATION: Bay Shore, Suffolk County, NY		DATE WELL STARTED: 5/11/2011	DATE WELL COMPLETED: 5/11/2011
CLIENT: NYSDEC		NAME OF INSPECTOR: JC, JB	
DRILLING COMPANY: NA		SIGNATURE OF INSPECTOR:	

ONE WELL VOLUME : 10 gallons WELL TD: 82.15 ft PUMP INTAKE DEPTH: 77 ft

Time	Depth to Water (ft)	Purge Rate (gal/min)	FIELD MEASUREMENTS				REMARKS
			Temp. (C)	Conduct. (ms/cm)	pH	Turbidity (ntu)	
1334	23.18						Static water level
1340	23.04		16.82	0.195	6.75	27.5	pump on
1346	23.04	1.7	16.77	0.290	6.22	30.5	
1353	23.05	1.4	16.69	0.294	6.15	5.3	
1359	23.08	1.7	16.68	0.292	6.20	4.2	
1404	23.09	2.0	16.47	0.293	6.14	2.8	
							Tubing and bailer left in well.

Pump Type: Groundfos; sampled with teflon bailers

Analytical Parameters: VOCs, TAL metals (field filtered; unfiltered)

AECOM

WELL NO. MW-3A

WELL SAMPLING FORM	PROJECT: ServAll Laundry Site (1-52-077)	PROJECT No.: 60135736	SHEET: 1 OF 1
LOCATION: Bay Shore, Suffolk County, NY		DATE WELL STARTED: 5/11/2011	DATE WELL COMPLETED: 5/12/2011
CLIENT: NYSDEC		NAME OF INSPECTOR: JC, JB	
DRILLING COMPANY: NA		SIGNATURE OF INSPECTOR:	

ONE WELL VOLUME : 15.6 gallons WELL TD: 115.01 ft PUMP INTAKE DEPTH: 110 ft

Time	Depth to Water (ft)	Purge Rate (gal/min)	FIELD MEASUREMENTS				REMARKS
			Temp. (C)	Conduct. (ms/cm)	pH	Turbidity (ntu)	
1450	23.05						Static water level
1455	25.40		17.24	0.222	6.93	245	pump on
1507	25.43	1.3	16.66	0.452	6.71	81.2	
1513	25.41	2.6	16.75	0.464	6.64	34.7	
1520	25.41	2.2	16.53	0.465	6.56	28.3	
1527	25.42	2.2	16.64	0.465	6.51	31.6	
1534	25.41	2.2	16.56	0.467	6.48	33.2	
							Tubing and bailer left in well.

Pump Type: Groundfos; sampled with teflon bailers

Analytical Parameters: VOCs, TAL metals (field filtered; unfiltered)

AECOM

WELL NO. MW-3B

WELL SAMPLING FORM	PROJECT: ServAll Laundry Site (1-52-077)	PROJECT No.: 60135736	SHEET: 1 OF 1
LOCATION: Bay Shore, Suffolk County, NY		DATE WELL STARTED: 5/11/2011	DATE WELL COMPLETED: 5/11/2011
CLIENT: NYSDEC		NAME OF INSPECTOR: JC, JB	
DRILLING COMPANY: NA		SIGNATURE OF INSPECTOR:	

ONE WELL VOLUME : 10.5 gallons WELL TD: 85.08 ft PUMP INTAKE DEPTH: 80 ft

Time	Depth to Water (ft)	Purge Rate (gal/min)	FIELD MEASUREMENTS				REMARKS
			Temp. (C)	Conduct. (ms/cm)	pH	Turbidity (ntu)	
1612	23.23						Static water level
1618	28.58		18.49	0.092	6.90	95.3	pump on
1625	28.56	1.5	17.45	0.213	6.41	102	
1632	28.56	1.5	16.95	0.223	6.09	34.5	
1639	28.56	1.5	16.77	0.223	6.12	20.2	
1645	28.58	1.8	16.62	0.225	6.08	22.2	
1651	28.58	1.8	16.69	0.222	6.09	25.3	
							Tubing and bailer left in well.

Pump Type: Groundfos; sampled with teflon bailers

Analytical Parameters: VOCs, TAL metals (field filtered; unfiltered)

AECOM

WELL NO. MW-4

WELL SAMPLING FORM	PROJECT: ServAll Laundry Site (1-52-077)	PROJECT No.: 60135736	SHEET: 1 OF 1
LOCATION: Bay Shore, Suffolk County, NY		DATE WELL STARTED: 5/12/2011	DATE WELL COMPLETED: 5/12/2011
CLIENT: NYSDEC		NAME OF INSPECTOR: JC, JB	
DRILLING COMPANY: NA		SIGNATURE OF INSPECTOR:	

ONE WELL VOLUME : 10.4 gallons WELL TD: 83.59 ft PUMP INTAKE DEPTH: 77 ft

Time	Depth to Water (ft)	Purge Rate (gal/min)	FIELD MEASUREMENTS				REMARKS
			Temp. (C)	Conduct. (ms/cm)	pH	Turbidity (ntu)	
840	22.61						Static water level
848	28.44		15.91	0.889	6.16	218	pump on
854	28.47	1.7	15.66	0.873	6.31	26.2	
859	28.48	2.1	15.77	0.869	6.34	4.5	
904	28.48	2.1	15.69	0.865	6.35	1.9	
909	28.48	2.1	15.64	0.864	6.38	1.8	
915	28.46	1.7	15.69	0.862	6.37	0.9	
							Tubing and bailer left in well.

Pump Type: Groundfos; sampled with teflon bailers

Analytical Parameters: VOCs, TAL metals (field filtered; unfiltered)

AECOM

WELL NO. MW-5

WELL SAMPLING FORM	PROJECT: ServAll Laundry Site (1-52-077)	PROJECT No.: 60135736	SHEET: 1 OF 1
LOCATION: Bay Shore, Suffolk County, NY		DATE WELL STARTED: 5/11/2011	DATE WELL COMPLETED: 5/11/2011
CLIENT: NYSDEC		NAME OF INSPECTOR: JC, JB	
DRILLING COMPANY: NA		SIGNATURE OF INSPECTOR:	

ONE WELL VOLUME : 0.6 gallons WELL TD: 26.65 ft PUMP INTAKE DEPTH: 24.5 ft

Time	Depth to Water (ft)	Purge Rate (gal/min)	FIELD MEASUREMENTS				REMARKS
			Temp. (C)	Conduct. (ms/cm)	pH	Turbidity (ntu)	
1240	23.31						Static water level
1245	23.97		20.37	0.261	6.49	211	pump on
1248	23.96	0.2	17.15	0.379	6.55	37.9	
1250	23.96	0.3	17.14	0.410	6.58	16.6	
1253	23.93	0.2	16.54	0.430	6.58	10.8	
1255	23.93	0.3	16.22	0.437	6.54	8.7	
							Tubing and bailer left in well.

Pump Type: Groundfos; sampled with teflon bailers

Analytical Parameters: VOCs, TAL metals (field filtered; unfiltered)

AECOM

WELL NO. MW-6A

WELL SAMPLING FORM	PROJECT: ServAll Laundry Site (1-52-077)	PROJECT No.: 60135736	SHEET: 1 OF 1
LOCATION: Bay Shore, Suffolk County, NY		DATE WELL STARTED: 5/12/2011	DATE WELL COMPLETED: 5/12/2011
CLIENT: NYSDEC		NAME OF INSPECTOR: JC, JB	
DRILLING COMPANY: NA		SIGNATURE OF INSPECTOR:	

ONE WELL VOLUME : 6.1 gallons WELL TD: 59.41 ft PUMP INTAKE DEPTH: 54 ft

Time	Depth to Water (ft)	Purge Rate (gal/min)	FIELD MEASUREMENTS				REMARKS
			Temp. (C)	Conduct. (ms/cm)	pH	Turbidity (ntu)	
	23.3						Static water level
1013	26.28		17.42	0.364	6.61	236	pump on
1020	26.30	0.9	17.53	0.364	6.32	20.6	
1034	26.28	0.4	17.88	0.363	6.29	21.9	
1046	26.28	0.5	17.13	0.361	6.23	18.3	
							Tubing and bailer left in well.

Pump Type: Groundfos; sampled with teflon bailers

Analytical Parameters: VOCs, TAL metals (field filtered; unfiltered)

AECOM

WELL NO. MW-6B

WELL SAMPLING FORM	PROJECT: ServAll Laundry Site (1-52-077)	PROJECT No.: 60135736	SHEET: 1 OF 1
LOCATION: Bay Shore, Suffolk County, NY		DATE WELL STARTED: 5/11/2011	DATE WELL COMPLETED: 5/11/2011
CLIENT: NYSDEC		NAME OF INSPECTOR: JC, JB	
DRILLING COMPANY: NA		SIGNATURE OF INSPECTOR:	

ONE WELL VOLUME : 1 gallons WELL TD: 28.47 ft PUMP INTAKE DEPTH: 25.5 ft

Time	Depth to Water (ft)	Purge Rate (gal/min)	FIELD MEASUREMENTS				REMARKS
			Temp. (C)	Conduct. (ms/cm)	pH	Turbidity (ntu)	
1131	23.24						Static water level
1135	23.63		20.55	0.241	6.43	468	pump on
1139	23.65	0.3	19.42	0.242	6.33	537	
1146	23.64	0.1	18.24	0.253	6.3	100	
1151	23.64	0.2	17.88	0.249	6.28	16.6	
1156	23.64	0.2	17.60	0.246	6.31	5.5	
1201	23.64	0.2	17.63	0.246	6.28	4.2	
1206	23.63	0.2	17.42	0.25	6.26	3.7	
							Tubing and bailer left in well.

Pump Type: Groundfos; sampled with teflon bailers

Analytical Parameters: VOCs, TAL metals (field filtered; unfiltered)

AECOM

WELL NO. MW-12

WELL SAMPLING FORM	PROJECT: ServAll Laundry Site (1-52-077)	PROJECT No.: 60135736	SHEET: 1 OF 1
LOCATION: Bay Shore, Suffolk County, NY		DATE WELL STARTED: 5/10/2011	DATE WELL COMPLETED: 5/10/2011
CLIENT: NYSDEC		NAME OF INSPECTOR: JC, JB	
DRILLING COMPANY: NA		SIGNATURE OF INSPECTOR:	

ONE WELL VOLUME : 12.5 gallons WELL TD: 89.11 ft PUMP INTAKE DEPTH: 84 ft

Time	Depth to Water (ft)	Purge Rate (gal/min)	FIELD MEASUREMENTS				REMARKS
			Temp. (C)	Conduct. (ms/cm)	pH	Turbidity (ntu)	
1514	15.64						Static water level
1520							pump on
1522	15.52		17.27	0.364	5.11	54.8	
1531	15.55	1.4	15.70	0.281	5.21	75.3	
1540	15.56	1.4	15.47	0.279	5.16	29.9	
1550	15.53	1.3	15.42	0.281	5.08	15.7	
1602	15.54	1.0	15.31	0.200	4.98	11.8	
							Tubing and bailer left in well.

Pump Type: Groundfos; sampled with teflon bailers

Analytical Parameters: VOCs, TAL metals (field filtered; unfiltered)

AECOM

WELL NO. MW-13

WELL SAMPLING FORM	PROJECT: ServAll Laundry Site (1-52-077)	PROJECT No.: 60135736	SHEET: 1 OF 1
LOCATION: Bay Shore, Suffolk County, NY		DATE WELL STARTED: 5/10/2011	DATE WELL COMPLETED: 5/10/2011
CLIENT: NYSDEC		NAME OF INSPECTOR: JC, JB	
DRILLING COMPANY: NA		SIGNATURE OF INSPECTOR:	

ONE WELL VOLUME : 14 gallons WELL TD: 96.48 ft PUMP INTAKE DEPTH: 88 ft

Time	Depth to Water (ft)	Purge Rate (gal/min)	FIELD MEASUREMENTS				REMARKS
			Temp. (C)	Conduct. (ms/cm)	pH	Turbidity (ntu)	
1635	16.02						Static water level
1641	17.16		14.50	0.304	5.75	205	pump on
1648	17.31	2	14.29	0.357	5.75	23.1	
1655	17.33	2	14.46	0.360	5.76	7.0	
1700	17.32	2.8	14.55	0.359	5.75	5.0	
1707	17.31	2	14.38	0.359	5.80	3.9	
							Tubing and bailer left in well.

Pump Type: Groundfos; sampled with teflon bailers

Analytical Parameters: VOCs, TAL metals (field filtered; unfiltered)

AECOM

WELL NO. MW-14

WELL SAMPLING FORM	PROJECT: ServAll Laundry Site (1-52-077)	PROJECT No.: 60135736	SHEET: 1 OF 1
LOCATION: Bay Shore, Suffolk County, NY		DATE WELL STARTED: 5/10/2011	DATE WELL COMPLETED: 5/10/2011
CLIENT: NYSDEC		NAME OF INSPECTOR: JC, JB	
DRILLING COMPANY: NA		SIGNATURE OF INSPECTOR:	

ONE WELL VOLUME : 13.1 gallons WELL TD: 93.58 ft PUMP INTAKE DEPTH: 88 ft

Time	Depth to Water (ft)	Purge Rate (gal/min)	FIELD MEASUREMENTS				REMARKS
			Temp. (C)	Conduct. (ms/cm)	pH	Turbidity (ntu)	
1736	16.26						Static water level
1738	16.41		15.36	0.406	6.04	61.5	pump on
1742	16.44	3.3	14.76	0.398	6.12	4.3	
1747	16.44	2.6	14.66	0.396	6.08	2.8	
1751	16.42	3.3	14.69	0.396	6.06	0.9	
							Tubing and bailer left in well.

Pump Type: Groundfos; sampled with teflon bailers

Analytical Parameters: VOCs, TAL metals (field filtered; unfiltered)

AECOM

WELL NO. MW-16

WELL SAMPLING FORM	PROJECT: ServAll Laundry Site (1-52-077)	PROJECT No.: 60135736	SHEET: 1 OF 1 SHEETS
LOCATION: Bay Shore, Suffolk County, NY		DATE WELL STARTED: 5/11/2011	DATE WELL COMPLETED: 5/11/2011
CLIENT: NYSDEC		NAME OF INSPECTOR: JC, JB	
DRILLING COMPANY: NA		SIGNATURE OF INSPECTOR:	

ONE WELL VOLUME : 14 gallons WELL TD: 93.86 ft PUMP INTAKE DEPTH: 88 ft

Time	Depth to Water (ft)	Purge Rate (gal/min)	FIELD MEASUREMENTS				REMARKS
			Temp. (C)	Conduct. (ms/cm)	pH	Turbidity (ntu)	
1153	11.76						Static water level
1158	11.17		13.76	0.445	6.31	53.6	pump on
1206	11.19	1.8	13.88	0.256	6.31	208	
1214	11.21	1.8	13.93	0.237	6.35	33.9	
1222	11.18	1.8	13.84	0.231	6.27	17.8	
1230	11.19	1.8	13.79	0.233	6.26	18.9	
1238	11.18	1.8	13.75	0.231	6.30	20.7	
							Tubing and bailer left in well.

Pump Type: Groundfos; sampled with teflon bailers

Analytical Parameters: VOCs, TAL metals (field filtered; unfiltered)

AECOM

WELL NO. MW-23S

WELL SAMPLING FORM	PROJECT: ServAll Laundry Site (1-52-077)	PROJECT No.: 60135736	SHEET: 1 OF 1
LOCATION: Bay Shore, Suffolk County, NY		DATE WELL STARTED: 5/11/2011	DATE WELL COMPLETED: 5/11/2011
CLIENT: NYSDEC		NAME OF INSPECTOR: JC, JB	
DRILLING COMPANY: NA		SIGNATURE OF INSPECTOR:	

ONE WELL VOLUME : 11 gallons WELL TD: 69.3 ft PUMP INTAKE DEPTH: 63 ft

Time	Depth to Water (ft)	Purge Rate (gal/min)	FIELD MEASUREMENTS				REMARKS
			Temp. (C)	Conduct. (ms/cm)	pH	Turbidity (ntu)	
836	5.68						Static water level
842	5.31		13.79	0.324	5.05	60.1	pump on
848	5.33	1.8	13.85	0.282	5.60	40.3	
856	5.33	1.4	13.80	0.274	5.76	15.6	
904	5.36	1.4	13.77	0.276	5.84	14.9	
910	5.34	1.8	13.74	0.275	5.81	16.1	
							Tubing and bailer left in well.

Pump Type: Groundfos; sampled with teflon bailers

Analytical Parameters: VOCs, TAL metals (field filtered; unfiltered)

AECOM

WELL NO. MW-23D

WELL SAMPLING FORM	PROJECT: ServAll Laundry Site (1-52-077)	PROJECT No.: 60135736	SHEET: 1 OF 1 SHEETS
LOCATION: Bay Shore, Suffolk County, NY		DATE WELL STARTED: 5/11/2011	DATE WELL COMPLETED: 5/11/2011
CLIENT: NYSDEC		NAME OF INSPECTOR: JC, JB	
DRILLING COMPANY: NA		SIGNATURE OF INSPECTOR:	

ONE WELL VOLUME : 14 gallons WELL TD: 87.7 ft PUMP INTAKE DEPTH: 81 ft

Time	Depth to Water (ft)	Purge Rate (gal/min)	FIELD MEASUREMENTS				REMARKS
			Temp. (C)	Conduct. (ms/cm)	pH	Turbidity (ntu)	
1015	5.77						Static water level
1022	5.68		13.88	0.239	6.10	126	pump on
1031	5.7	1.6	13.75	0.217	6.15	309	
1038	5.71	2.0	13.4	0.200	6.14	164	
1044	5.68	2.3	13.56	0.195	6.03	130	
1051	5.72	2.0	13.56	0.197	5.97	75.6	
1059	5.71	1.8	13.59	0.186	6.02	63.0	
1107	5.72	1.8	13.56	0.189	6.05	57.2	
							Tubing and bailer left in well.

Pump Type: Groundfos; sampled with teflon bailers

Analytical Parameters: VOCs, TAL metals (field filtered; unfiltered)

Appendix C

Laboratory Data Summary Packages (Form 1s)

Report Date:
08-Jun-11 15:39

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

Laboratory Report

AECOM Environment
100 Red Schoolhouse Road Suite B-1
Chestnut Ridge, NY 10977

Work Order: K0834
Project : Multi Site G, ServAll
Project #:

Attn: Paul Kareth

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
K0834-01	SL-MW-12	Aqueous	10-May-11 16:04	13-May-11 15:34
K0834-02	SL-MW-62	Aqueous	10-May-11 16:04	13-May-11 15:34
K0834-03	SL-MW-13	Aqueous	10-May-11 17:09	13-May-11 15:34
K0834-04	TB-01	Aqueous	10-May-11 00:00	13-May-11 15:34
K0834-05	SL-MW-14	Aqueous	10-May-11 17:55	13-May-11 15:34
K0834-06	SL-MW-23S	Aqueous	11-May-11 09:20	13-May-11 15:34
K0834-07	SL-MW-23D	Aqueous	11-May-11 11:11	13-May-11 15:34
K0834-08	SL-MW-16	Aqueous	11-May-11 12:42	13-May-11 15:34
K0834-09	SL-MW-2	Aqueous	11-May-11 14:10	13-May-11 15:34
K0834-10	SL-MW-3A	Aqueous	11-May-11 15:39	13-May-11 15:34
K0834-11	SL-MW-3B	Aqueous	11-May-11 16:57	13-May-11 15:34
K0834-12	SL-MW-4	Aqueous	12-May-11 09:26	13-May-11 15:34
K0834-13	SL-MW-6A	Aqueous	12-May-11 10:51	13-May-11 15:34
K0834-14	SL-MW-6B	Aqueous	12-May-11 12:11	13-May-11 15:34
K0834-15	SL-MW-5	Aqueous	12-May-11 13:00	13-May-11 15:34

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the samples(s) as received. This report may not be reproduced, except in full, without written approval from Mitkem Laboratories.

All applicable NELAC or USEPA CLP requirments have been meet.

Mitkem Laboratories is accredited under the National Environmental Laboratory Approval Program (NELAP) and is certified by several States, as well as USEPA and US Department of Defense. The current list of our laboratory approvals and certifications is available on the Certifications page on our web site at www.mitkem.com.

Please contact the Laboratory or Technical Director at 401-732-3400 with any questions regarding the data contained in the laboratory report.

Department of Defense	N/A
Connecticut	PH-0153
Delaware	N/A
Maine	2007037
Massachusetts	M-RI907
New Hampshire	2631
New Jersey	RI001
New York	11522
North Carolina	581
Pennsylvania	68-00520
Rhode Island	LAI00301
Texas	T104704422-08-TX
USDA	P330-08-00023
USEPA - ISM	EP-W-09-039
USEPA - SOM	EP-W-05-030

Authorized by:

Yihai Ding
Laboratory Director

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Identification and Analytical Requirements Summary

Project Name : Multi Site G **SDG :** K0834

Customer Sample ID	Laboratory Sample ID	Analytical Requirements				
		MSVOA Method #	MSSEMI Method #	GC* Method #	ME	Other
SL-MW-12	K0834-01	SW8260_W			SW6010_W	
SL-MW-12	K0834-01				SW6010_W	
SL-MW-12	K0834-01				SW7470	
SL-MW-12	K0834-01				SW7470	
SL-MW-62	K0834-02	SW8260_W			SW6010_W	
SL-MW-62	K0834-02				SW6010_W	
SL-MW-62	K0834-02				SW7470	
SL-MW-62	K0834-02				SW7470	
SL-MW-13	K0834-03	SW8260_W			SW6010_W	
SL-MW-13	K0834-03				SW6010_W	
SL-MW-13	K0834-03				SW7470	
SL-MW-13	K0834-03				SW7470	
TB-01	K0834-04	SW8260_W				
SL-MW-14	K0834-05	SW8260_W			SW6010_W	
SL-MW-14	K0834-05				SW6010_W	
SL-MW-14	K0834-05				SW7470	
SL-MW-14	K0834-05				SW7470	
SL-MW-23S	K0834-06	SW8260_W			SW6010_W	
SL-MW-23S	K0834-06				SW6010_W	
SL-MW-23S	K0834-06				SW7470	
SL-MW-23S	K0834-06				SW7470	
SL-MW-23D	K0834-07	SW8260_W			SW6010_W	
SL-MW-23D	K0834-07				SW6010_W	
SL-MW-23D	K0834-07				SW7470	
SL-MW-23D	K0834-07				SW7470	
SL-MW-16	K0834-08	SW8260_W			SW6010_W	
SL-MW-16	K0834-08				SW6010_W	
SL-MW-16	K0834-08				SW7470	
SL-MW-16	K0834-08				SW7470	
SL-MW-2	K0834-09	SW8260_W			SW6010_W	
SL-MW-2	K0834-09				SW6010_W	
SL-MW-2	K0834-09				SW7470	
SL-MW-2	K0834-09				SW7470	
SL-MW-3A	K0834-10	SW8260_W			SW6010_W	
SL-MW-3A	K0834-10				SW6010_W	
SL-MW-3A	K0834-10				SW7470	
SL-MW-3A	K0834-10				SW7470	
SL-MW-3B	K0834-11	SW8260_W			SW6010_W	

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Identification and Analytical Requirements Summary

Project Name : Multi Site G **SDG :** K0834

Customer Sample ID	Laboratory Sample ID	Analytical Requirements				
		MSVOA Method #	MSSEMI Method #	GC* Method #	ME	Other
SL-MW-3B	K0834-11				SW6010_W	
SL-MW-3B	K0834-11				SW7470	
SL-MW-3B	K0834-11				SW7470	
SL-MW-4	K0834-12	SW8260_W			SW6010_W	
SL-MW-4	K0834-12				SW6010_W	
SL-MW-4	K0834-12				SW7470	
SL-MW-4	K0834-12				SW7470	
SL-MW-6A	K0834-13	SW8260_W			SW6010_W	
SL-MW-6A	K0834-13				SW6010_W	
SL-MW-6A	K0834-13				SW7470	
SL-MW-6A	K0834-13				SW7470	
SL-MW-6B	K0834-14	SW8260_W			SW6010_W	
SL-MW-6B	K0834-14				SW6010_W	
SL-MW-6B	K0834-14				SW7470	
SL-MW-6B	K0834-14				SW7470	
SL-MW-5	K0834-15	SW8260_W			SW6010_W	
SL-MW-5	K0834-15				SW6010_W	
SL-MW-5	K0834-15				SW7470	
SL-MW-5	K0834-15				SW7470	

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary MSVOA

Project Name : Multi Site G **SDG :** K0834

Laboratory Sample ID	Matrix	Date Collected	Date Received By Lab	Date Extracted	Date Analyzed
SW8260_W					
K0834-01A	AQ	5/10/2011	5/13/2011	NA	5/16/2011
K0834-02A	AQ	5/10/2011	5/13/2011	NA	5/16/2011
K0834-03A	AQ	5/10/2011	5/13/2011	NA	5/16/2011
K0834-04A	AQ	5/10/2011	5/13/2011	NA	5/16/2011
K0834-05A	AQ	5/10/2011	5/13/2011	NA	5/16/2011
K0834-06A	AQ	5/11/2011	5/13/2011	NA	5/16/2011
K0834-06ADL	AQ	5/11/2011	5/13/2011	NA	5/17/2011
K0834-07A	AQ	5/11/2011	5/13/2011	NA	5/17/2011
K0834-08A	AQ	5/11/2011	5/13/2011	NA	5/16/2011
K0834-09A	AQ	5/11/2011	5/13/2011	NA	5/16/2011
K0834-10A	AQ	5/11/2011	5/13/2011	NA	5/16/2011
K0834-11A	AQ	5/11/2011	5/13/2011	NA	5/16/2011
K0834-12A	AQ	5/12/2011	5/13/2011	NA	5/16/2011
K0834-12AMS	AQ	5/12/2011	5/13/2011	NA	5/17/2011
K0834-12AMSD	AQ	5/12/2011	5/13/2011	NA	5/17/2011
K0834-13A	AQ	5/12/2011	5/13/2011	NA	5/16/2011
K0834-14A	AQ	5/12/2011	5/13/2011	NA	5/16/2011
K0834-15A	AQ	5/12/2011	5/13/2011	NA	5/16/2011

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary MSVOA

Project Name : Multi Site G **SDG :** K0834

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Low/Medium Level	Dil/Conc Factor
SW8260_W					
K0834-01A	AQ	SW8260_W	NA	LOW	1
K0834-02A	AQ	SW8260_W	NA	LOW	1
K0834-03A	AQ	SW8260_W	NA	LOW	1
K0834-04A	AQ	SW8260_W	NA	LOW	1
K0834-05A	AQ	SW8260_W	NA	LOW	1
K0834-06A	AQ	SW8260_W	NA	LOW	1
K0834-06ADL	AQ	SW8260_W	NA	LOW	16
K0834-07A	AQ	SW8260_W	NA	LOW	1
K0834-08A	AQ	SW8260_W	NA	LOW	1
K0834-09A	AQ	SW8260_W	NA	LOW	1
K0834-10A	AQ	SW8260_W	NA	LOW	1
K0834-11A	AQ	SW8260_W	NA	LOW	1
K0834-12A	AQ	SW8260_W	NA	LOW	1
K0834-12AMS	AQ	SW8260_W	NA	LOW	1
K0834-12AMSD	AQ	SW8260_W	NA	LOW	1
K0834-13A	AQ	SW8260_W	NA	LOW	1
K0834-14A	AQ	SW8260_W	NA	LOW	1
K0834-15A	AQ	SW8260_W	NA	LOW	1

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary ME

Project Name : Multi Site G **SDG :** K0834

Laboratory Sample ID	Matrix	Metals Requested	Date Received By Lab	Date Analyzed
SW6010_W				
K0834-01B	AQ	SW6010_W	5/13/2011	5/18/2011
K0834-01C	AQ	SW6010_W	5/13/2011	5/18/2011
K0834-02B	AQ	SW6010_W	5/13/2011	5/18/2011
K0834-02C	AQ	SW6010_W	5/13/2011	5/18/2011
K0834-03B	AQ	SW6010_W	5/13/2011	5/18/2011
K0834-03C	AQ	SW6010_W	5/13/2011	5/18/2011
K0834-05B	AQ	SW6010_W	5/13/2011	5/18/2011
K0834-05C	AQ	SW6010_W	5/13/2011	5/18/2011
K0834-06B	AQ	SW6010_W	5/13/2011	5/18/2011
K0834-06C	AQ	SW6010_W	5/13/2011	5/18/2011
K0834-07B	AQ	SW6010_W	5/13/2011	5/18/2011
K0834-07C	AQ	SW6010_W	5/13/2011	5/18/2011
K0834-08B	AQ	SW6010_W	5/13/2011	5/18/2011
K0834-08C	AQ	SW6010_W	5/13/2011	5/18/2011
K0834-09B	AQ	SW6010_W	5/13/2011	5/18/2011
K0834-09C	AQ	SW6010_W	5/13/2011	5/18/2011
K0834-10B	AQ	SW6010_W	5/13/2011	5/18/2011
K0834-10C	AQ	SW6010_W	5/13/2011	5/18/2011
K0834-11B	AQ	SW6010_W	5/13/2011	5/18/2011
K0834-11C	AQ	SW6010_W	5/13/2011	5/18/2011
K0834-12B	AQ	SW6010_W	5/13/2011	5/18/2011
K0834-12BDUP	AQ	SW6010_W	5/13/2011	5/18/2011
K0834-12BMS	AQ	SW6010_W	5/13/2011	5/18/2011
K0834-12C	AQ	SW6010_W	5/13/2011	5/18/2011
K0834-12CDUP	AQ	SW6010_W	5/13/2011	5/18/2011
K0834-12CMS	AQ	SW6010_W	5/13/2011	5/18/2011
K0834-13B	AQ	SW6010_W	5/13/2011	5/18/2011
K0834-13C	AQ	SW6010_W	5/13/2011	5/18/2011
K0834-14B	AQ	SW6010_W	5/13/2011	5/18/2011
K0834-14C	AQ	SW6010_W	5/13/2011	5/18/2011
K0834-15B	AQ	SW6010_W	5/13/2011	5/18/2011
K0834-15C	AQ	SW6010_W	5/13/2011	5/18/2011
SW7470				

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary ME

Project Name : Multi Site G **SDG :** K0834

Laboratory Sample ID	Matrix	Metals Requested	Date Received By Lab	Date Analyzed
K0834-01B	AQ	SW7470	5/13/2011	5/31/2011
K0834-01C	AQ	SW7470	5/13/2011	5/31/2011
K0834-02B	AQ	SW7470	5/13/2011	5/31/2011
K0834-02C	AQ	SW7470	5/13/2011	5/31/2011
K0834-03B	AQ	SW7470	5/13/2011	5/31/2011
K0834-03C	AQ	SW7470	5/13/2011	5/31/2011
K0834-05B	AQ	SW7470	5/13/2011	5/31/2011
K0834-05C	AQ	SW7470	5/13/2011	5/31/2011
K0834-06B	AQ	SW7470	5/13/2011	5/31/2011
K0834-06C	AQ	SW7470	5/13/2011	5/31/2011
K0834-07B	AQ	SW7470	5/13/2011	5/31/2011
K0834-07C	AQ	SW7470	5/13/2011	5/31/2011
K0834-08B	AQ	SW7470	5/13/2011	5/31/2011
K0834-08C	AQ	SW7470	5/13/2011	5/31/2011
K0834-09B	AQ	SW7470	5/13/2011	5/31/2011
K0834-09C	AQ	SW7470	5/13/2011	5/31/2011
K0834-10B	AQ	SW7470	5/13/2011	5/31/2011
K0834-10C	AQ	SW7470	5/13/2011	5/31/2011
K0834-11B	AQ	SW7470	5/13/2011	5/31/2011
K0834-11C	AQ	SW7470	5/13/2011	5/31/2011
K0834-12B	AQ	SW7470	5/13/2011	5/31/2011
K0834-12BDUP	AQ	SW7470	5/13/2011	5/31/2011
K0834-12BMS	AQ	SW7470	5/13/2011	5/31/2011
K0834-12C	AQ	SW7470	5/13/2011	5/31/2011
K0834-12CDUP	AQ	SW7470	5/13/2011	5/31/2011
K0834-12CMS	AQ	SW7470	5/13/2011	5/31/2011
K0834-13B	AQ	SW7470	5/13/2011	5/31/2011
K0834-13C	AQ	SW7470	5/13/2011	5/31/2011
K0834-14B	AQ	SW7470	5/13/2011	5/31/2011
K0834-14C	AQ	SW7470	5/13/2011	5/31/2011
K0834-15B	AQ	SW7470	5/13/2011	5/31/2011
K0834-15C	AQ	SW7470	5/13/2011	5/31/2011

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

WorkOrder: K0834

Client ID: AECOM_CHSNTRDG
Project: Multi Site G
WO Name: Multi Site G, ServAll
Location: MULTI_SITE,
Comments: N/A

Case:
SDG:
PO: 95900-04

HC Due: 06/03/11
Fax Due:
Fax Report: ☐

Report Level: ASP-B
Special Program:
EDD: EQUIIS_4_NYSDEC

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
K0834-01A	SL-MW-12	05/10/2011 16:04	05/13/2011	Aqueous	SW8260_W	/					VOA
K0834-01B	SL-MW-12	05/10/2011 16:04	05/13/2011	Aqueous	SW6010_W	/ TAL				Y	M2
K0834-01B	SL-MW-12	05/10/2011 16:04	05/13/2011	Aqueous	SW7470	/ TAL					M2
K0834-01C	SL-MW-12	05/10/2011 16:04	05/13/2011	Aqueous	SW6010_W	FIELD FILTERED--DISSOLVED / TAL				Y	M2
K0834-01C	SL-MW-12	05/10/2011 16:04	05/13/2011	Aqueous	SW7470	FIELD FILTERED--DISSOLVED / TAL					M2
K0834-02A	SL-MW-62	05/10/2011 16:04	05/13/2011	Aqueous	SW8260_W	/					VOA
K0834-02B	SL-MW-62	05/10/2011 16:04	05/13/2011	Aqueous	SW6010_W	/ TAL				Y	M2
K0834-02B	SL-MW-62	05/10/2011 16:04	05/13/2011	Aqueous	SW7470	/ TAL					M2
K0834-02C	SL-MW-62	05/10/2011 16:04	05/13/2011	Aqueous	SW6010_W	FIELD FILTERED--DISSOLVED / TAL				Y	M2
K0834-02C	SL-MW-62	05/10/2011 16:04	05/13/2011	Aqueous	SW7470	FIELD FILTERED--DISSOLVED / TAL					M2
K0834-03A	SL-MW-13	05/10/2011 17:09	05/13/2011	Aqueous	SW8260_W	/					VOA
K0834-03B	SL-MW-13	05/10/2011 17:09	05/13/2011	Aqueous	SW6010_W	/ TAL				Y	M2
K0834-03B	SL-MW-13	05/10/2011 17:09	05/13/2011	Aqueous	SW7470	/ TAL					M2
K0834-03C	SL-MW-13	05/10/2011 17:09	05/13/2011	Aqueous	SW6010_W	FIELD FILTERED--DISSOLVED / TAL				Y	M2
K0834-03C	SL-MW-13	05/10/2011 17:09	05/13/2011	Aqueous	SW7470	FIELD FILTERED--DISSOLVED / TAL					M2
K0834-04A	TB-01	05/10/2011 00:00	05/13/2011	Aqueous	SW8260_W	/					VOA
K0834-05A	SL-MW-14	05/10/2011 17:55	05/13/2011	Aqueous	SW8260_W	/					VOA
K0834-05B	SL-MW-14	05/10/2011 17:55	05/13/2011	Aqueous	SW6010_W	/ TAL				Y	M2
K0834-05B	SL-MW-14	05/10/2011 17:55	05/13/2011	Aqueous	SW7470	/ TAL					M2
K0834-05C	SL-MW-14	05/10/2011 17:55	05/13/2011	Aqueous	SW6010_W	FIELD FILTERED--DISSOLVED / TAL				Y	M2

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

WorkOrder: K0834

Client ID: AECOM_CHSNTRDG
Project: Multi Site G
WO Name: Multi Site G, ServAll
Location: MULTI_SITE,
Comments: N/A

Case:
SDG:
PO: 95900-04

HC Due: 06/03/11
Fax Due:
Fax Report: ☐

Report Level: ASP-B
Special Program:
EDD: EQUIIS_4_NYSDEC

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
K0834-05C	SL-MW-14	05/10/2011 17:55	05/13/2011	Aqueous	SW7470	FIELD FILTERED--DISSOLVED / TAL					M2
K0834-06A	SL-MW-23S	05/11/2011 09:20	05/13/2011	Aqueous	SW8260_W	/					VOA
K0834-06B	SL-MW-23S	05/11/2011 09:20	05/13/2011	Aqueous	SW6010_W	/ TAL				Y	M2
K0834-06B	SL-MW-23S	05/11/2011 09:20	05/13/2011	Aqueous	SW7470	/ TAL					M2
K0834-06C	SL-MW-23S	05/11/2011 09:20	05/13/2011	Aqueous	SW6010_W	FIELD FILTERED--DISSOLVED / TAL				Y	M2
K0834-06C	SL-MW-23S	05/11/2011 09:20	05/13/2011	Aqueous	SW7470	FIELD FILTERED--DISSOLVED / TAL					M2
K0834-07A	SL-MW-23D	05/11/2011 11:11	05/13/2011	Aqueous	SW8260_W	/					VOA
K0834-07B	SL-MW-23D	05/11/2011 11:11	05/13/2011	Aqueous	SW6010_W	/ TAL				Y	M2
K0834-07B	SL-MW-23D	05/11/2011 11:11	05/13/2011	Aqueous	SW7470	/ TAL					M2
K0834-07C	SL-MW-23D	05/11/2011 11:11	05/13/2011	Aqueous	SW6010_W	FIELD FILTERED--DISSOLVED / TAL				Y	M2
K0834-07C	SL-MW-23D	05/11/2011 11:11	05/13/2011	Aqueous	SW7470	FIELD FILTERED--DISSOLVED / TAL					M2
K0834-08A	SL-MW-16	05/11/2011 12:42	05/13/2011	Aqueous	SW8260_W	/					VOA
K0834-08B	SL-MW-16	05/11/2011 12:42	05/13/2011	Aqueous	SW6010_W	/ TAL				Y	M2
K0834-08B	SL-MW-16	05/11/2011 12:42	05/13/2011	Aqueous	SW7470	/ TAL					M2
K0834-08C	SL-MW-16	05/11/2011 12:42	05/13/2011	Aqueous	SW6010_W	FIELD FILTERED--DISSOLVED / TAL				Y	M2
K0834-08C	SL-MW-16	05/11/2011 12:42	05/13/2011	Aqueous	SW7470	FIELD FILTERED--DISSOLVED / TAL					M2
K0834-09A	SL-MW-2	05/11/2011 14:10	05/13/2011	Aqueous	SW8260_W	/					VOA
K0834-09B	SL-MW-2	05/11/2011 14:10	05/13/2011	Aqueous	SW6010_W	/ TAL				Y	M2
K0834-09B	SL-MW-2	05/11/2011 14:10	05/13/2011	Aqueous	SW7470	/ TAL					M2
K0834-09C	SL-MW-2	05/11/2011 14:10	05/13/2011	Aqueous	SW6010_W	FIELD FILTERED--DISSOLVED / TAL				Y	M2

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

WorkOrder: K0834

Client ID: AECOM_CHSNTRDG
Project: Multi Site G
WO Name: Multi Site G, ServAll
Location: MULTI_SITE,
Comments: N/A

Case:
SDG:
PO: 95900-04

HC Due: 06/03/11
Fax Due:
Fax Report: ☐

Report Level: ASP-B
Special Program:
EDD: EQUIIS_4_NYSDEC

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
K0834-09C	SL-MW-2	05/11/2011 14:10	05/13/2011	Aqueous	SW7470	FIELD FILTERED--DISSOLVED / TAL					M2
K0834-10A	SL-MW-3A	05/11/2011 15:39	05/13/2011	Aqueous	SW8260_W	/					VOA
K0834-10B	SL-MW-3A	05/11/2011 15:39	05/13/2011	Aqueous	SW6010_W	/ TAL				Y	M2
K0834-10B	SL-MW-3A	05/11/2011 15:39	05/13/2011	Aqueous	SW7470	/ TAL					M2
K0834-10C	SL-MW-3A	05/11/2011 15:39	05/13/2011	Aqueous	SW6010_W	FIELD FILTERED--DISSOLVED / TAL				Y	M2
K0834-10C	SL-MW-3A	05/11/2011 15:39	05/13/2011	Aqueous	SW7470	FIELD FILTERED--DISSOLVED / TAL					M2
K0834-11A	SL-MW-3B	05/11/2011 16:57	05/13/2011	Aqueous	SW8260_W	/					VOA
K0834-11B	SL-MW-3B	05/11/2011 16:57	05/13/2011	Aqueous	SW6010_W	/ TAL				Y	M2
K0834-11B	SL-MW-3B	05/11/2011 16:57	05/13/2011	Aqueous	SW7470	/ TAL					M2
K0834-11C	SL-MW-3B	05/11/2011 16:57	05/13/2011	Aqueous	SW6010_W	FIELD FILTERED--DISSOLVED / TAL				Y	M2
K0834-11C	SL-MW-3B	05/11/2011 16:57	05/13/2011	Aqueous	SW7470	FIELD FILTERED--DISSOLVED / TAL					M2
K0834-12A	SL-MW-4	05/12/2011 09:26	05/13/2011	Aqueous	SW8260_W	/			Y		VOA
K0834-12B	SL-MW-4	05/12/2011 09:26	05/13/2011	Aqueous	SW6010_W	/ TAL			Y	Y	M2
K0834-12B	SL-MW-4	05/12/2011 09:26	05/13/2011	Aqueous	SW7470	/ TAL			Y		M2
K0834-12C	SL-MW-4	05/12/2011 09:26	05/13/2011	Aqueous	SW6010_W	FIELD FILTERED--DISSOLVED / TAL			Y	Y	M2
K0834-12C	SL-MW-4	05/12/2011 09:26	05/13/2011	Aqueous	SW7470	FIELD FILTERED--DISSOLVED / TAL			Y		M2
K0834-13A	SL-MW-6A	05/12/2011 10:51	05/13/2011	Aqueous	SW8260_W	/					VOA
K0834-13B	SL-MW-6A	05/12/2011 10:51	05/13/2011	Aqueous	SW6010_W	/ TAL				Y	M2
K0834-13B	SL-MW-6A	05/12/2011 10:51	05/13/2011	Aqueous	SW7470	/ TAL					M2
K0834-13C	SL-MW-6A	05/12/2011 10:51	05/13/2011	Aqueous	SW6010_W	FIELD FILTERED--DISSOLVED / TAL				Y	M2

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

WorkOrder: K0834

Client ID: AECOM_CHSNTRDG
Project: Multi Site G
WO Name: Multi Site G, ServAll
Location: MULTI_SITE,
Comments: N/A

Case:
SDG:
PO: 95900-04

HC Due: 06/03/11
Fax Due:
Fax Report: ☐

Report Level: ASP-B
Special Program:
EDD: EQUIIS_4_NYSDEC

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
K0834-13C	SL-MW-6A	05/12/2011 10:51	05/13/2011	Aqueous	SW7470	FIELD FILTERED--DISSOLVED / TAL					M2
K0834-14A	SL-MW-6B	05/12/2011 12:11	05/13/2011	Aqueous	SW8260_W	/					VOA
K0834-14B	SL-MW-6B	05/12/2011 12:11	05/13/2011	Aqueous	SW6010_W	/ TAL				Y	M2
K0834-14B	SL-MW-6B	05/12/2011 12:11	05/13/2011	Aqueous	SW7470	/ TAL					M2
K0834-14C	SL-MW-6B	05/12/2011 12:11	05/13/2011	Aqueous	SW6010_W	FIELD FILTERED--DISSOLVED / TAL				Y	M2
K0834-14C	SL-MW-6B	05/12/2011 12:11	05/13/2011	Aqueous	SW7470	FIELD FILTERED--DISSOLVED / TAL					M2
K0834-15A	SL-MW-5	05/12/2011 13:00	05/13/2011	Aqueous	SW8260_W	/					VOA
K0834-15B	SL-MW-5	05/12/2011 13:00	05/13/2011	Aqueous	SW6010_W	/ TAL				Y	M2
K0834-15B	SL-MW-5	05/12/2011 13:00	05/13/2011	Aqueous	SW7470	/ TAL					M2
K0834-15C	SL-MW-5	05/12/2011 13:00	05/13/2011	Aqueous	SW6010_W	FIELD FILTERED--DISSOLVED / TAL				Y	M2
K0834-15C	SL-MW-5	05/12/2011 13:00	05/13/2011	Aqueous	SW7470	FIELD FILTERED--DISSOLVED / TAL					M2

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Sample Transmittal Documentation

MITKEM LABORATORIES

A DIVISION OF SPECTRUM ANALYTICAL, INC. Featuring HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 6

Special Handling:
TAT- Indicate Date Needed: Standard
- All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes.
- Samples disposed of after 30 days unless otherwise instructed.

Report To: Paul Kareth
100 Red Schoolhouse Rd Ste B1
Chestnut Ridge, NY 10977
845 425 4980

Project Mgr.: Paul Kareth

Invoice To: Paul Kareth
SAME

P.O. No.: _____ RQN: _____

Project No.: _____
Site Name: Serv All
Location: Bay Shore State: NY
Sampler(s): J. Christopher, J. Becker

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9=_____ 10=_____ 11=_____

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1=water quality X2=_____ X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: TCL VOC	TAL Metals	List preservative code below: 2	4	Notes: QA/QC Reporting Level: ☐ Level I ☐ Level II ☐ Level III ☐ Level IV ☐ Other _____ State specific reporting standards:
01	SL-MW-12 unfiltered	5/10/11	1604	G	WG				1		1			TAL unfilt
	SL-MW-12 field filtered	5/10/11	1604	G	WG				1		1			TAL filt.
	SL-MW-12	5/10/11	1604	G	WG	2				2				TAL unfilt
02	SL-MW-62 unfiltered	5/10/11	1604	G	WG				1		1			TAL unfilt
	SL-MW-62 field filtered	5/10/11	1604	G	WG				1		1			TAL filt
	SL-MW-62	5/10/11	1604	G	WG	2				2				TAL unfilt
03	SL-MW-13 unfiltered	5/10/11	1709	G	WG				1		1			TAL unfilt
	SL-MW-13 field filtered	5/10/11	1709	G	WG				1		1			TAL filt
	SL-MW-13	5/10/11	1709	G	WG	2				2				TAL unfilt
04	TB-01	—	—	G	X1	2				2				TAL unfilt

☐ E-mail to _____
EDD Format _____

Relinquished by:	Received by:	Date:	Time:
		5-12-11	1 40
		5/13/11	9:30
		5/13/11	15:34

Condition upon receipt: ☒ Iced ☐ Ambient ☐ °C 2.0

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MITKEM LABORATORIES

A DIVISION OF SPECTRUM ANALYTICAL, INC. Featuring HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 2 of 6

Special Handling:
TAT- Indicate Date Needed: Standard
- All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes.
- Samples disposed of after 30 days unless otherwise instructed.

Report To: Paul Kareth
100 Red Schoolhouse Rd Ste 131
Chestnut Ridge, NY 10977
845 425 4980

Project Mgr.: Paul Kareth

Invoice To: Paul Kareth
SAME

P.O. No.: _____ RQN: _____

Project No.: _____
Site Name: ServAll
Location: Bay Shore State: NY
Sampler(s): J. Christopher, J. Becker

1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9=_____ 10=_____ 11=_____

List preservative code below: 2 4

Notes:

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= Water Quality X2=_____ X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: TCL VOC	TAL Metals	Notes:
65	SL-MW-14 unfiltered	5/10/11	1755	G	WG				1		1	TAL unfilt.
	SL-MW-14 Filtered	5/10/11	1755	G	WG				1		1	TAL filt.
	SL-MW-14	5/10/11	1755	G	WG	2				2		TAL unfilt.

QA/QC Reporting Level
☐ Level I ☐ Level II
☐ Level III ☐ Level IV
☐ Other _____

State specific reporting standards: _____

☐ E-mail to _____
EDD Format _____

Condition upon receipt: ☒ Iced ☐ Ambient ☐ °C 2.0

Relinquished by:	Received by:	Date:	Time:
		5-12-11	1400
		5/13/11	9:30
		5/13/11	15:30

MITKEM LABORATORIES

A DIVISION OF SPECTRUM ANALYTICAL, INC. Featuring HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 3 of 6

Special Handling:
TAT- Indicate Date Needed: Standard
- All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes.
- Samples disposed of after 30 days unless otherwise instructed.

Report To: Paul Karcth
100 Red Schoolhouse Rd Ste 13I
Chestnut Ridge, NY 10977
845 425 4980

Project Mgr.: Paul Karcth

Invoice To: Paul Karcth
SAME

P.O. No.: _____ RQN: _____

Project No.: _____
Site Name: SewAll
Location: Bay Shore State: NY
Sampler(s): J. Christopher J. Becker

1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9=_____ 10=_____ 11=_____

List preservative code below: 2 4

Notes:

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1=~~Water Quality~~ X2=_____ X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: TCL VOC	TAL Metals	QA/QC Reporting Level / State specific reporting standards:
06	SL-MW-23S unfiltered	5/11/11	0920	G	WG				1		1	TAL unfilt.
	SL-MW-23S Field Filtered	5/11/11	0920	G	WG				1		1	TAL filt.
	SL-MW-23S	5/11/11	0920	G	WG	2				2		TAL unfilt.
07	SL-MW-23D unfiltered	5/11/11	1111	G	WG				1		1	TAL unfilt.
	SL-MW-23D Field Filtered	5/11/11	1111	G	WG				1		1	TAL filt.
	SL-MW-23D	5/11/11	1111	G	WG	2				2		TAL unfilt.
08	SL-MW-16 unfiltered	5/11/11	1242	G	WG				1		1	TAL unfilt.
	SL-MW-16 Field Filtered	5/11/11	1242	G	WG				1		1	TAL filt.
	SL-MW-16	5/11/11	1242	G	WG	2				2		TAL unfilt.

☐ QA/QC Reporting Level: ☐ Level I ☐ Level II ☐ Level III ☐ Level IV ☐ Other _____

☐ E-mail to _____

EDD Format _____

Condition upon receipt: ☒ Iced ☐ Ambient ☐ °C 2.0

Relinquished by:	Received by:	Date:	Time:
		5/12/11	1440
		5/13/11	9:30
		5/13/11	15:32

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MITKEM LABORATORIES

A DIVISION OF SPECTRUM ANALYTICAL, INC. Featuring HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 4 of 6

Special Handling:
TAT- Indicate Date Needed: Standard
- All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes.
- Samples disposed of after 30 days unless otherwise instructed.

Report To: Paul Kareth
100 Red schoolhouse Rd Ste 13J
Chestnut Ridge, NY 10977
845 425 4980

Project Mgr.: Paul Kareth

Invoice To: Paul Kareth
SAME

P.O. No.: _____ RQN: _____

Project No.: _____
Site Name: Serv All
Location: Bay Shore State: NY
Sampler(s): J Christopher, J. Becker

1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9=_____ 10=_____ 11=_____

List preservative code below: 2 4

Notes:

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= water quality X2=_____ X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: TCL VOC	TAL Metals							
	SL-MW-2 unfiltered	5/11/11	1410	G	WG				1		1							TAL unf. lt.
09	SL-MW-2 Field Filtered	5/11/11	1410	G	WG				1		1							TAL f. lt.
	SL-MW-2	5/11/11	1410	G	WG	2				2								TAL unf. lt.
	SL-MW-3A unfiltered	5/11/11	1539	G	WG				1		1							TAL unf. lt.
10	SL-MW-3A Field Filtered	5/11/11	1539	G	WG				1		1							TAL f. lt.
	SL-MW-3A	5/11/11	1539	G	WG	2				2								TAL unf. lt.
	SL-MW-3B unfiltered	5/11/11	1657	G	WG				1		1							TAL unf. lt.
11	SL-MW-3B Field Filtered	5/11/11	1657	G	WG				1		1							TAL f. lt.
	SL-MW-3B	5/11/11	1657	G	WG	2				2								TAL unf. lt.

☐ E-mail to _____
EDD Format _____

Condition upon receipt: ☒ Iced ☐ Ambient ☐ °C 2.0

Relinquished by:	Received by:	Date:	Time:
		5/12/11	1540
		5/13/11	9:30
		5/13/11	15:34

6

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 5 of 6

Special Handling:
- ☐ Standard TAT - 7 to 10 business days
- ☐ Rush TAT - Date Needed: Standard
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Paul Kareth
100 Red Schoolhouse Rd Ste 131
Chestnut Ridge, NY 10977
845-425-4980
Telephone #:
Project Mgr. Paul Kareth

Invoice To: Paul Kareth
SAME
P.O. No.: RQN:

Project No.:
Site Name: Serv All
Location: Bay Shore State: NY
Sampler(s): J. Christopher, J. Becker

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8=$NaHSO_4$ 9= Deionized Water 10= 11=

List preservative code below: 2 4

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= Water Quality X2= X3=

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	TCL VOC	TAL Metals	State-specific reporting standards:
12	SL-MW-4 unfiltered	5/12/11	0926	G	WG		1		1		1	TAL unf. lt.
	SL-MW-4 field filtered	5/12/11	0926	G	WG		1		1		1	TAL f. lt.
	SL-MW-4	5/12/11	0926	G	WG	2				2		TAL unf. lt.
13	SL-MW-6A unfiltered	5/12/11	1051	G	WG		1		1		1	TAL unf. lt.
	SL-MW-6A field filtered	5/12/11	1051	G	WG		1		1		1	TAL f. lt
	SL-MW-6A	5/12/11	1051	G	WG	2				2		TAL unf. lt.
14	SL-MW-6B unfiltered	5/12/11	1211	G	WG		1		1		1	TAL unf. lt.
	SL-MW-6B field filtered	5/12/11	1211	G	WG		1		1		1	TAL f. lt
1	SL-MW-6B	5/12/11	1211	G	WG	2				2		TAL unf. lt.
				G								

MA DEP MCP CAM Report: Yes☐ No☐
CT DPH RCP Report: Yes☐ No☐

QA/QC Reporting Level
☐ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER V*
☐ Other

Relinquished by:	Received by:	Date:	Time:	Temp°C
		5/12/11	140	20
		5/13/11	9:30	
		5/13/11	15:34	

☐ EDD Format
☐ E-mail to

☐ Ambient ☒ Iced ☐ Refrigerated ☐ Fridge temp ___ °C ☐ Freezer temp ___ °C

10

MITKEM LABORATORIES

A DIVISION OF SPECTRUM ANALYTICAL, INC. Featuring HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 6 of 6

Special Handling:
TAT- Indicate Date Needed: Standard
- All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes.
- Samples disposed of after 30 days unless otherwise instructed.

Report To: Paul Kareth
100 Red Schoolhouse Rd Ste 131
Chestnut Ridge, NY 10977
845 425 4980

Project Mgr.: Paul Kareth

Invoice To: Paul Kareth
SAME

P.O. No.: _____ RQN: _____

Project No.: _____
Site Name: Sea Alt
Location: Bay Shore State: NY
Sampler(s): J. Christopher, J. Becker

1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9=_____ 10=_____ 11=_____

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1=Water Quality X2=_____ X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: TCL VOC	TAL Metals	List preservative code below: 2	4	Notes:
12	SL-MW-4-MS/MSD unfiltered	5/12/11	0926	G	WG				1		1			TAL unfilt.
	SL-MW-4-MS/MSD field filtered	5/12/11	0926	G	WG				1		1			TAL filt.
	SL-MW-4-MS/MSD	5/12/11	0926	G	WG	2				2				TAL unfilt.
15	SL-MW-5 unfiltered	5/12/11	1300	G	WG				1		1			TAL unfilt.
	SL-MW-5 field filtered	5/12/11	1300	G	WG				1		1			TAL filt.
	SL-MW-5	5/12/11	1300	G	WG	2				2				TAL unfilt.

QA/QC Reporting Level
☐ Level I ☐ Level II
☐ Level III ☐ Level IV
☐ Other _____

State specific reporting standards: _____

☐ E-mail to _____
EDD Format _____

Condition upon receipt: ☒ Iced ☐ Ambient ☐ °C 20

Relinquished by:	Received by:	Date:	Time:
		5/12/11	1400
		5/13/11	9:30
		5/13/11	15:34

11

MITKEM LABORATORIES
Sample Condition Form

Received By: Daniel Mitkem | Reviewed By: [signature] | Date: 5/13 | Mitkem Work Order #: K0834

Client Project: Multi-Site GC (SEVALL | Client: AECOM - Christ

1) Cooler Sealed — Yes / No

2) Custody Seal(s) — Present / Absent
Coolers / Bottles — Intact / Broken

3) Custody Seal Number(s)

4) Chain-of-Custody — Present / Absent

5) Cooler Temperature: 2°C
IR Temp Gun ID: MT-1
Coolant Condition: Ice / dry

6) Airbill(s) — Present / Absent
Airbill Number(s)

Hand Del by Mitkem courier

7) Samples Bottles — Intact / Broken / Leaking

8) Date Received: 5/13/11

9) Time Received: 15:34

Preservative Name/Lot No.:

Lab Sample ID		Preservation (pH) HNO_3	H_2SO_4	HCl	NaOH	H_3PO_4	VOA Matrix	Soil Headspace or Air Bubble ≥ 1/4"
K0834	01	<2					H	
	02	<2						
	03	<2						
	04	—						
	05	<2						
	06							
	07							
	08							
	09							
	10							
	11							
	12							
	13							
	14							
K0834	15	<2					H	

5/10/11

VOA Matrix Key:
US = Unpreserved Soil; A = Air
UA = Unpreserved Aqueous; H = HCl
M = MeOH; E = Encore
N = NaHSO4; F = Freeze

See Sample Condition Notification/Corrective Action Form yes / no

Form ID: QAF.0006

Rad OK yes / no

Y:\Controlled Forms\QAF.0006 sample condition form.xls

* Volatiles *

REPORT NARRATIVE

Mitkem Laboratories, a Division of Spectrum Analytical, Inc.

Client : AECOM Environment

Project: Multi Site G, ServAll

Laboratory Workorder / SDG #: K0834

SW846 8260C, VOC by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8260C

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW5030

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V1
Instrument Type: GCMS-VOA
Description: HP5890 II / HP5972
Manufacturer: Hewlett-Packard
Model: 5890 / 5972
GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624 capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: SL-MW-4 (K0834-12AMS) and SL-MW-4 (K0834-12AMSD).

Percent recoveries were within the QC limits.

Replicate RPDs were within the QC limits.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

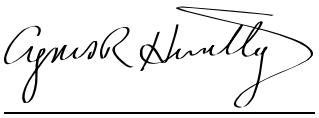
The following sample was re-analyzed at dilution:

SL-MW-23S (K0834-06ADL) : Dilution Factor: 16

G. Samples:

No unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Mitkem, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: 

Date 06/08/11

Data Flag/Qualifiers:

U Not Detected. This compound was analyzed-for but not detected. For most analyses the reporting limit (lowest standard concentration) is the value listed. For Department of Defense programs, this is the Limit of Detection (LOD).

J This flag indicates an estimated value due to either
- the compound was detected below the reporting limit, or
- estimated concentration for Tentatively Identified Compound

B This flag indicates the compound was also detected in the associated Method Blank. The B flag has an alternative meaning for Inorganics analyses reported using CLP ILM-type metals forms, indicating a "trace" concentration below the reporting limit and equal to or above the detection limit.

D For Organics analysis, this flag indicates the compound concentration was obtained from a secondary dilution analysis

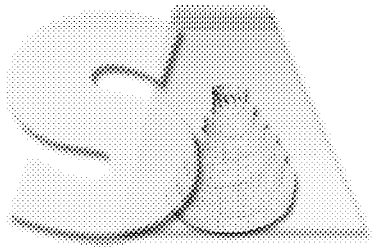
E This flag indicates the compound concentration exceeded the Calibration Range. The E flag has an alternative meaning for Inorganics analyses reported using CLP metals forms, indicating an estimated concentration due to the presence of interferences, as determined by the serial dilution analysis.

P This flag is used for pesticides/PCB/herbicide compound when there is a greater than 40% difference for detected concentration between the two GC columns used for primary and confirmation analyses. This difference typically indicates an interference, causing one value to be unusually high. The **lower** of the two values is generally reported on the Form 1, and both values reported on the Form 10.

A Used to flag semivolatile organic Tentatively Identified Compound library search results for compounds identified as aldol condensation byproducts.

N Used to flag results for volatile and semivolatile Organics analysis Tentatively Identified Compounds where an analyte has passed the identification criteria, and is considered to be positively identified. For Inorganics analysis the N flag indicates the matrix spike recovery falls outside of the control limit.

* For Inorganics analysis the * flag indicates Relative Percent Difference for duplicate analyses is outside of the control limit.



Sample ID Suffixes

DL Diluted analysis. The sample was diluted and reanalyzed. The DL may be followed by a digit if more than one diluted reanalysis is provided. The DL suffix is not attached to an analysis initially performed at dilution, only to reanalyses performed at dilution

RE Reanalysis. Appended to the client sample ID to indicate a reextraction and reanalysis or a reanalysis of the original sample extract.

RA Reanalysis. Appended to the laboratory sample ID indicates a reanalysis of the original sample extract.

RX Reextraction. Appended to the laboratory sample ID indicates a reextraction of the sample.

MS Matrix Spike.

MSD Matrix Spike Duplicate

DUP Duplicate analysis

SD Serial Dilution

PS Post-digestion or Post-distillation spike. For metals or inorganic analyses

2B - FORM II VOA-2

WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Level: (TRACE or LOW) LOW

	EPA SAMPLE NO.	VDMC1 (DBFM) #	VDMC2 (DCE) #	VDMC3 (TOL) #	VDMC4 (BFB) #				TOT OUT
01	LCS-59186	105	101	98	99				0
02	LCSD-59186	103	104	97	100				0
03	MB-59186	104	105	99	93				0
04	TB-01	104	107	99	96				0
05	SL-MW-12	102	105	98	99				0
06	SL-MW-62	105	105	97	96				0
07	SL-MW-13	102	102	101	95				0
08	SL-MW-14	104	102	98	94				0
09	SL-MW-23S	107	101	98	93				0
10	SL-MW-16	104	104	98	96				0
11	SL-MW-2	107	100	99	94				0
12	SL-MW-3A	103	99	97	97				0
13	SL-MW-3B	106	103	99	92				0
14	SL-MW-4	104	101	102	95				0
15	SL-MW-6A	109	101	97	96				0
16	SL-MW-6B	103	102	100	96				0
17	SL-MW-5	104	102	99	95				0
18	LCS-59208	104	103	101	104				0
19	MB-59208	102	99	99	96				0
20	SL-MW-23D	105	104	99	93				0
21	SL-MW-23SDL	100	108	99	95				0
22	SL-MW-4MS	106	106	95	100				0
23	SL-MW-4MSD	107	107	95	98				0

		QC LIMITS
VDMC1	(DBFM) Dibromofluoromethane	(85-115)
VDMC2	(DCE) = 1,2-Dichloroethane-d4	(70-120)
VDMC3	(TOL) = Toluene-d8	(85-120)
VDMC4	(BFB) = Bromofluorobenzene	(75-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

som11.06.01.B

SW846

3A - FORM III VOA-1

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Matrix Spike - EPA Sample No.: SL-MW-4 Level: (TRACE or LOW) LOW

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	MS CONCENTRATION (µg/L)	MS %REC	#	QC. LIMITS REC.
Dichlorodifluoromethane	50.0000	0.0000	49.6162	99		30-155
Chloromethane	50.0000	0.0000	51.9494	104		40-125
Vinyl chloride	50.0000	0.0000	51.8241	104		50-145
Bromomethane	50.0000	0.0000	56.3161	113		30-145
Chloroethane	50.0000	0.0000	59.2879	119		60-135
Trichlorofluoromethane	50.0000	0.0000	54.2448	108		60-145
1,1-Dichloroethene	50.0000	0.0000	54.5185	109		70-130
Acetone	50.0000	0.0000	39.0341	78		40-140
Iodomethane	50.0000	0.0000	54.7459	109		72-121
Carbon disulfide	50.0000	0.0000	57.2799	115		35-160
Methylene chloride	50.0000	0.0000	57.2916	115		55-140
trans-1,2-Dichloroethene	50.0000	0.0000	56.1965	112		60-140
Methyl tert-butyl ether	50.0000	0.0000	57.7520	116		65-125
1,1-Dichloroethane	50.0000	0.0000	54.5995	109		70-135
Vinyl acetate	50.0000	0.0000	56.4377	113		38-163
2-Butanone	50.0000	0.0000	51.9967	104		30-150
cis-1,2-Dichloroethene	50.0000	0.0000	56.7086	113		70-125
2,2-Dichloropropane	50.0000	0.0000	57.0190	114		70-135
Bromochloromethane	50.0000	0.0000	56.9415	114		65-130
Chloroform	50.0000	0.0000	57.5089	115		65-135
1,1,1-Trichloroethane	50.0000	0.0000	56.5213	113		65-130
1,1-Dichloropropene	50.0000	0.0000	57.7681	116		75-130
Carbon tetrachloride	50.0000	0.0000	54.7141	109		65-140
1,2-Dichloroethane	50.0000	0.0000	55.8116	112		70-130
Benzene	50.0000	0.0000	54.8695	110		80-120
Trichloroethene	50.0000	0.0000	54.6879	109		70-125
1,2-Dichloropropane	50.0000	0.0000	56.4640	113		75-125
Dibromomethane	50.0000	0.0000	55.8090	112		75-125
Bromodichloromethane	50.0000	0.0000	56.5105	113		75-120
cis-1,3-Dichloropropene	50.0000	0.0000	57.7136	115		70-130
4-Methyl-2-pentanone	50.0000	0.0000	57.2967	115		60-135
Toluene	50.0000	0.0000	55.3376	111		75-120
trans-1,3-Dichloropropene	50.0000	0.0000	55.9710	112		55-140
1,1,2-Trichloroethane	50.0000	0.0000	56.2551	113		75-125
1,3-Dichloropropane	50.0000	0.0000	52.6402	105		75-125
Tetrachloroethene	50.0000	0.0000	51.8369	104		45-150
2-Hexanone	50.0000	0.0000	47.7328	95		55-130
Dibromochloromethane	50.0000	0.0000	53.7448	107		60-135
1,2-Dibromoethane	50.0000	0.0000	54.9444	110		80-120
Chlorobenzene	50.0000	0.0000	50.5691	101		80-120
1,1,1,2-Tetrachloroethane	50.0000	0.0000	54.7553	110		80-130
Ethylbenzene	50.0000	0.0000	51.0815	102		75-125
m,p-Xylene	100.0000	0.0000	106.1600	106		75-130
o-Xylene	50.0000	0.0000	51.1624	102		80-120

3A - FORM III VOA-1

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Matrix Spike - EPA Sample No.: SL-MW-4 Level: (TRACE or LOW) LOW

Xylene (Total)	150.0000	0.0000	157.3224	105		81-121
Styrene	50.0000	0.0000	53.0988	106		65-135
Bromoform	50.0000	0.0000	56.2695	113		70-130
Isopropylbenzene	50.0000	0.0000	53.6410	107		75-125
1,1,2,2-Tetrachloroethane	50.0000	0.0000	58.4234	117		65-130
Bromobenzene	50.0000	0.0000	55.6027	111		75-125
1,2,3-Trichloropropane	50.0000	0.0000	54.4419	109		75-125
n-Propylbenzene	50.0000	0.0000	55.4117	111		70-130
2-Chlorotoluene	50.0000	0.0000	58.1819	116		75-125
1,3,5-Trimethylbenzene	50.0000	0.0000	54.9370	110		75-130
4-Chlorotoluene	50.0000	0.0000	54.4014	109		75-130
tert-Butylbenzene	50.0000	0.0000	53.5121	107		70-130
1,2,4-Trimethylbenzene	50.0000	0.0000	55.2943	111		75-130
sec-Butylbenzene	50.0000	0.0000	52.3105	105		70-125
4-Isopropyltoluene	50.0000	0.0000	52.9940	106		75-130
1,3-Dichlorobenzene	50.0000	0.0000	55.0270	110		75-125
1,4-Dichlorobenzene	50.0000	0.0000	51.8864	104		75-125
n-Butylbenzene	50.0000	0.0000	50.6648	101		70-135
1,2-Dichlorobenzene	50.0000	0.0000	55.6778	111		70-120
1,2-Dibromo-3-chloropropan	50.0000	0.0000	51.5795	103		50-130
1,2,4-Trichlorobenzene	50.0000	0.0000	45.6548	91		65-135
Hexachlorobutadiene	50.0000	0.0000	45.8203	92		50-140
1,2,3-Trichlorobenzene	50.0000	0.0000	49.5002	99		55-140
Naphthalene	50.0000	0.0000	52.4250	105		55-140

COMPOUND	SPIKE ADDED (µg/L)	MSD CONCENTRATION (µg/L)	MSD %REC	#	%RPD	#	QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	50.0000	49.8795	100		1		0-40	30-155
Chloromethane	50.0000	57.7758	116		11		0-40	40-125
Vinyl chloride	50.0000	57.0249	114		10		0-40	50-145
Bromomethane	50.0000	58.3618	117		4		0-40	30-145
Chloroethane	50.0000	61.8788	124		4		0-40	60-135
Trichlorofluoromethane	50.0000	57.5826	115		6		0-40	60-145
1,1-Dichloroethene	50.0000	56.4627	113		4		0-40	70-130
Acetone	50.0000	36.4476	73		7		0-40	40-140
Iodomethane	50.0000	58.8879	118		7		0-40	72-121
Carbon disulfide	50.0000	56.5970	113		1		0-40	35-160
Methylene chloride	50.0000	58.2111	116		2		0-40	55-140
trans-1,2-Dichloroethene	50.0000	58.1516	116		3		0-40	60-140
Methyl tert-butyl ether	50.0000	59.8866	120		4		0-40	65-125
1,1-Dichloroethane	50.0000	57.7529	116		6		0-40	70-135
Vinyl acetate	50.0000	59.2282	118		5		0-40	38-163
2-Butanone	50.0000	57.4848	115		10		0-40	30-150
cis-1,2-Dichloroethene	50.0000	59.9052	120		5		0-40	70-125
2,2-Dichloropropane	50.0000	60.9964	122		7		0-40	70-135
Bromochloromethane	50.0000	59.6750	119		5		0-40	65-130

3A - FORM III VOA-1

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Matrix Spike - EPA Sample No.: SL-MW-4 Level: (TRACE or LOW) LOW

Chloroform	50.0000	60.5274	121		5		0-40	65-135
1,1,1-Trichloroethane	50.0000	59.4730	119		5		0-40	65-130
1,1-Dichloropropene	50.0000	57.4258	115		1		0-40	75-130
Carbon tetrachloride	50.0000	56.9952	114		4		0-40	65-140
1,2-Dichloroethane	50.0000	57.5297	115		3		0-40	70-130
Benzene	50.0000	57.6333	115		5		0-40	80-120
Trichloroethene	50.0000	57.2215	114		5		0-40	70-125
1,2-Dichloropropane	50.0000	58.3641	117		3		0-40	75-125
Dibromomethane	50.0000	58.4625	117		5		0-40	75-125
Bromodichloromethane	50.0000	59.8196	120		6		0-40	75-120
cis-1,3-Dichloropropene	50.0000	58.7235	117		2		0-40	70-130
4-Methyl-2-pentanone	50.0000	61.4859	123		7		0-40	60-135
Toluene	50.0000	58.8176	118		6		0-40	75-120
trans-1,3-Dichloropropene	50.0000	57.8779	116		3		0-40	55-140
1,1,2-Trichloroethane	50.0000	60.2911	121		7		0-40	75-125
1,3-Dichloropropane	50.0000	56.0686	112		6		0-40	75-125
Tetrachloroethene	50.0000	53.4308	107		3		0-40	45-150
2-Hexanone	50.0000	51.6305	103		8		0-40	55-130
Dibromochloromethane	50.0000	55.7121	111		4		0-40	60-135
1,2-Dibromoethane	50.0000	58.2388	116		6		0-40	80-120
Chlorobenzene	50.0000	54.1071	108		7		0-40	80-120
1,1,1,2-Tetrachloroethane	50.0000	56.9611	114		4		0-40	80-130
Ethylbenzene	50.0000	54.0427	108		6		0-40	75-125
m,p-Xylene	100.0000	109.6977	110		3		0-40	75-130
o-Xylene	50.0000	53.2780	107		4		0-40	80-120
Xylene (Total)	150.0000	162.9757	109		4		0-40	81-121
Styrene	50.0000	55.0757	110		4		0-40	65-135
Bromoform	50.0000	58.9036	118		5		0-40	70-130
Isopropylbenzene	50.0000	54.4970	109		2		0-40	75-125
1,1,2,2-Tetrachloroethane	50.0000	58.7417	117		1		0-40	65-130
Bromobenzene	50.0000	56.7479	113		2		0-40	75-125
1,2,3-Trichloropropane	50.0000	57.0841	114		5		0-40	75-125
n-Propylbenzene	50.0000	55.6208	111		0		0-40	70-130
2-Chlorotoluene	50.0000	55.6091	111		5		0-40	75-125
1,3,5-Trimethylbenzene	50.0000	55.1079	110		0		0-40	75-130
4-Chlorotoluene	50.0000	56.2023	112		3		0-40	75-130
tert-Butylbenzene	50.0000	54.5323	109		2		0-40	70-130
1,2,4-Trimethylbenzene	50.0000	54.7868	110		1		0-40	75-130
sec-Butylbenzene	50.0000	52.6641	105		1		0-40	70-125
4-Isopropyltoluene	50.0000	52.3178	105		1		0-40	75-130
1,3-Dichlorobenzene	50.0000	55.5814	111		1		0-40	75-125
1,4-Dichlorobenzene	50.0000	57.4398	115		10		0-40	75-125
n-Butylbenzene	50.0000	50.3393	101		1		0-40	70-135
1,2-Dichlorobenzene	50.0000	56.7393	113		2		0-40	70-120
1,2-Dibromo-3-chloropropan	50.0000	58.7274	117		13		0-40	50-130
1,2,4-Trichlorobenzene	50.0000	47.5011	95		4		0-40	65-135
Hexachlorobutadiene	50.0000	46.3068	93		1		0-40	50-140

3A - FORM III VOA-1

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Matrix Spike - EPA Sample No.: SL-MW-4 Level: (TRACE or LOW) LOW

1,2,3-Trichlorobenzene	50.0000	51.9631	104		5		0-40	55-140
Naphthalene	50.0000	55.8400	112		6		0-40	55-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 68 outside limits

Spike Recovery: 0 out of 136 outside limits

COMMENTS:

3 - FORM III

WATER LABORATORY CONTROL

SAMPLE RECOVERY

EPA SAMPLE NO.

LCS-59186

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Lab Sample ID: LCS-59186 LCS Lot No.:

Date Extracted: 05/16/2011 Date Analyzed (1): 05/16/2011

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Dichlorodifluoromethane	50.0000	0.0000	54.8969	110		30 - 155
Chloromethane	50.0000	0.0000	62.4537	125		40 - 125
Vinyl chloride	50.0000	0.0000	57.6877	115		50 - 145
Bromomethane	50.0000	0.0000	59.3540	119		30 - 145
Chloroethane	50.0000	0.0000	61.5237	123		60 - 135
Trichlorofluoromethane	50.0000	0.0000	61.0347	122		60 - 145
1,1-Dichloroethene	50.0000	0.0000	57.0221	114		70 - 130
Acetone	50.0000	0.0000	50.8188	102		40 - 140
Iodomethane	50.0000	0.0000	57.9026	116		72 - 121
Carbon disulfide	50.0000	0.0000	56.8707	114		35 - 160
Methylene chloride	50.0000	0.0000	56.3215	113		55 - 140
trans-1,2-Dichloroethene	50.0000	0.0000	56.1610	112		60 - 140
Methyl tert-butyl ether	50.0000	0.0000	58.3430	117		65 - 125
1,1-Dichloroethane	50.0000	0.0000	55.5531	111		70 - 135
Vinyl acetate	50.0000	0.0000	59.4438	119		38 - 163
2-Butanone	50.0000	0.0000	57.7215	115		30 - 150
cis-1,2-Dichloroethene	50.0000	0.0000	57.8250	116		70 - 125
2,2-Dichloropropane	50.0000	0.0000	56.3429	113		70 - 135
Bromochloromethane	50.0000	0.0000	58.2899	117		65 - 130
Chloroform	50.0000	0.0000	57.4159	115		65 - 135
1,1,1-Trichloroethane	50.0000	0.0000	55.2658	111		65 - 130
1,1-Dichloropropene	50.0000	0.0000	56.1261	112		75 - 130
Carbon tetrachloride	50.0000	0.0000	57.1202	114		65 - 140
1,2-Dichloroethane	50.0000	0.0000	58.2537	117		70 - 130
Benzene	50.0000	0.0000	57.8693	116		80 - 120
Trichloroethene	50.0000	0.0000	55.6057	111		70 - 125
1,2-Dichloropropane	50.0000	0.0000	56.0371	112		75 - 125
Dibromomethane	50.0000	0.0000	54.8259	110		75 - 125
Bromodichloromethane	50.0000	0.0000	57.8204	116		75 - 120
cis-1,3-Dichloropropene	50.0000	0.0000	58.5280	117		70 - 130
4-Methyl-2-pentanone	50.0000	0.0000	58.0877	116		60 - 135
Toluene	50.0000	0.0000	56.7426	113		75 - 120
trans-1,3-Dichloropropene	50.0000	0.0000	57.3647	115		55 - 140
1,1,2-Trichloroethane	50.0000	0.0000	56.4085	113		75 - 125
1,3-Dichloropropane	50.0000	0.0000	55.8741	112		75 - 125
Tetrachloroethene	50.0000	0.0000	51.2845	103		45 - 150
2-Hexanone	50.0000	0.0000	54.9868	110		55 - 130
Dibromochloromethane	50.0000	0.0000	55.7880	112		60 - 135
1,2-Dibromoethane	50.0000	0.0000	54.1401	108		80 - 120
Chlorobenzene	50.0000	0.0000	50.8407	102		80 - 120
1,1,1,2-Tetrachloroethane	50.0000	0.0000	53.8629	108		80 - 130
Ethylbenzene	50.0000	0.0000	51.9787	104		75 - 125
m,p-Xylene	100.0000	0.0000	104.0885	104		75 - 130
o-Xylene	50.0000	0.0000	51.5405	103		80 - 120

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.
LCS-59186

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Lab Sample ID: LCS-59186 LCS Lot No.:

Date Extracted: 05/16/2011 Date Analyzed (1): 05/16/2011

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Xylene (Total)	150.0000	0.0000	155.6290	104		81 - 121
Styrene	50.0000	0.0000	53.7230	107		65 - 135
Bromoform	50.0000	0.0000	57.6085	115		70 - 130
Isopropylbenzene	50.0000	0.0000	50.8736	102		75 - 125
1,1,2,2-Tetrachloroethane	50.0000	0.0000	54.6223	109		65 - 130
Bromobenzene	50.0000	0.0000	53.5733	107		75 - 125
1,2,3-Trichloropropane	50.0000	0.0000	55.4974	111		75 - 125
n-Propylbenzene	50.0000	0.0000	50.2762	101		70 - 130
2-Chlorotoluene	50.0000	0.0000	53.3668	107		75 - 125
1,3,5-Trimethylbenzene	50.0000	0.0000	51.8151	104		75 - 130
4-Chlorotoluene	50.0000	0.0000	53.8744	108		75 - 130
tert-Butylbenzene	50.0000	0.0000	49.3405	99		70 - 130
1,2,4-Trimethylbenzene	50.0000	0.0000	51.2000	102		75 - 130
sec-Butylbenzene	50.0000	0.0000	48.2394	96		70 - 125
4-Isopropyltoluene	50.0000	0.0000	48.6927	97		75 - 130
1,3-Dichlorobenzene	50.0000	0.0000	52.4721	105		75 - 125
1,4-Dichlorobenzene	50.0000	0.0000	52.2126	104		75 - 125
n-Butylbenzene	50.0000	0.0000	47.9786	96		70 - 135
1,2-Dichlorobenzene	50.0000	0.0000	52.2996	105		70 - 120
1,2-Dibromo-3-chloropropan	50.0000	0.0000	51.3225	103		50 - 130
1,2,4-Trichlorobenzene	50.0000	0.0000	47.0787	94		65 - 135
Hexachlorobutadiene	50.0000	0.0000	45.8445	92		50 - 140
1,2,3-Trichlorobenzene	50.0000	0.0000	51.6023	103		55 - 140
Naphthalene	50.0000	0.0000	54.9930	110		55 - 140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 68 outside limits

COMMENTS:

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.
LCS-59208

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Lab Sample ID: LCS-59208 LCS Lot No.:

Date Extracted: 05/17/2011 Date Analyzed (1): 05/17/2011

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Dichlorodifluoromethane	50.0000	0.0000	42.2512	85		30 - 155
Chloromethane	50.0000	0.0000	46.2347	92		40 - 125
Vinyl chloride	50.0000	0.0000	45.2017	90		50 - 145
Bromomethane	50.0000	0.0000	47.8137	96		30 - 145
Chloroethane	50.0000	0.0000	50.5056	101		60 - 135
Trichlorofluoromethane	50.0000	0.0000	48.3704	97		60 - 145
1,1-Dichloroethene	50.0000	0.0000	46.9536	94		70 - 130
Acetone	50.0000	0.0000	59.3076	119		40 - 140
Iodomethane	50.0000	0.0000	49.8644	100		72 - 121
Carbon disulfide	50.0000	0.0000	45.3784	91		35 - 160
Methylene chloride	50.0000	0.0000	50.5385	101		55 - 140
trans-1,2-Dichloroethene	50.0000	0.0000	47.8238	96		60 - 140
Methyl tert-butyl ether	50.0000	0.0000	55.1339	110		65 - 125
1,1-Dichloroethane	50.0000	0.0000	47.1704	94		70 - 135
Vinyl acetate	50.0000	0.0000	55.4008	111		38 - 163
2-Butanone	50.0000	0.0000	58.7549	118		30 - 150
cis-1,2-Dichloroethene	50.0000	0.0000	49.5840	99		70 - 125
2,2-Dichloropropane	50.0000	0.0000	49.5853	99		70 - 135
Bromochloromethane	50.0000	0.0000	53.4831	107		65 - 130
Chloroform	50.0000	0.0000	50.2476	100		65 - 135
1,1,1-Trichloroethane	50.0000	0.0000	47.6558	95		65 - 130
1,1-Dichloropropene	50.0000	0.0000	48.6862	97		75 - 130
Carbon tetrachloride	50.0000	0.0000	45.5600	91		65 - 140
1,2-Dichloroethane	50.0000	0.0000	51.4810	103		70 - 130
Benzene	50.0000	0.0000	48.4638	97		80 - 120
Trichloroethene	50.0000	0.0000	47.2089	94		70 - 125
1,2-Dichloropropane	50.0000	0.0000	49.6571	99		75 - 125
Dibromomethane	50.0000	0.0000	51.5713	103		75 - 125
Bromodichloromethane	50.0000	0.0000	50.4332	101		75 - 120
cis-1,3-Dichloropropene	50.0000	0.0000	53.9726	108		70 - 130
4-Methyl-2-pentanone	50.0000	0.0000	58.8379	118		60 - 135
Toluene	50.0000	0.0000	48.5822	97		75 - 120
trans-1,3-Dichloropropene	50.0000	0.0000	54.1505	108		55 - 140
1,1,2-Trichloroethane	50.0000	0.0000	56.0214	112		75 - 125
1,3-Dichloropropane	50.0000	0.0000	53.0142	106		75 - 125
Tetrachloroethene	50.0000	0.0000	44.9858	90		45 - 150
2-Hexanone	50.0000	0.0000	56.6101	113		55 - 130
Dibromochloromethane	50.0000	0.0000	52.5088	105		60 - 135
1,2-Dibromoethane	50.0000	0.0000	53.2076	106		80 - 120
Chlorobenzene	50.0000	0.0000	47.1248	94		80 - 120
1,1,1,2-Tetrachloroethane	50.0000	0.0000	49.6348	99		80 - 130
Ethylbenzene	50.0000	0.0000	47.0902	94		75 - 125
m,p-Xylene	100.0000	0.0000	94.6334	95		75 - 130
o-Xylene	50.0000	0.0000	47.9854	96		80 - 120

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.
LCS-59208

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Lab Sample ID: LCS-59208 LCS Lot No.:

Date Extracted: 05/17/2011 Date Analyzed (1): 05/17/2011

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Xylene (Total)	150.0000	0.0000	142.6188	95		81 - 121
Styrene	50.0000	0.0000	49.2575	99		65 - 135
Bromoform	50.0000	0.0000	57.9593	116		70 - 130
Isopropylbenzene	50.0000	0.0000	47.3379	95		75 - 125
1,1,2,2-Tetrachloroethane	50.0000	0.0000	55.1946	110		65 - 130
Bromobenzene	50.0000	0.0000	49.3593	99		75 - 125
1,2,3-Trichloropropane	50.0000	0.0000	59.0690	118		75 - 125
n-Propylbenzene	50.0000	0.0000	45.8561	92		70 - 130
2-Chlorotoluene	50.0000	0.0000	47.0900	94		75 - 125
1,3,5-Trimethylbenzene	50.0000	0.0000	47.3797	95		75 - 130
4-Chlorotoluene	50.0000	0.0000	46.8163	94		75 - 130
tert-Butylbenzene	50.0000	0.0000	47.0545	94		70 - 130
1,2,4-Trimethylbenzene	50.0000	0.0000	47.7185	95		75 - 130
sec-Butylbenzene	50.0000	0.0000	46.1747	92		70 - 125
4-Isopropyltoluene	50.0000	0.0000	45.1991	90		75 - 130
1,3-Dichlorobenzene	50.0000	0.0000	48.3783	97		75 - 125
1,4-Dichlorobenzene	50.0000	0.0000	48.1431	96		75 - 125
n-Butylbenzene	50.0000	0.0000	44.3838	89		70 - 135
1,2-Dichlorobenzene	50.0000	0.0000	49.5396	99		70 - 120
1,2-Dibromo-3-chloropropan	50.0000	0.0000	56.1632	112		50 - 130
1,2,4-Trichlorobenzene	50.0000	0.0000	45.0431	90		65 - 135
Hexachlorobutadiene	50.0000	0.0000	43.1727	86		50 - 140
1,2,3-Trichlorobenzene	50.0000	0.0000	45.6186	91		55 - 140
Naphthalene	50.0000	0.0000	49.5290	99		55 - 140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 68 outside limits

COMMENTS:

3 - FORM III

WATER LABORATORY CONTROL

SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.

LCSD-59186

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Lab Sample ID: LCSD-59186 LCS Lot No.:

COMPOUND	SPIKE ADDED	LCSD CONCENTRATION	LCSD %REC	#	%RPD	#	QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	50.0000	43.6769	87		23		40	30 - 155
Chloromethane	50.0000	51.0015	102		20		40	40 - 125
Vinyl chloride	50.0000	46.8842	94		20		40	50 - 145
Bromomethane	50.0000	47.0639	94		23		40	30 - 145
Chloroethane	50.0000	47.4346	95		26		40	60 - 135
Trichlorofluoromethane	50.0000	47.3729	95		25		40	60 - 145
1,1-Dichloroethene	50.0000	47.2762	95		18		40	70 - 130
Acetone	50.0000	48.1265	96		6		40	40 - 140
Iodomethane	50.0000	49.5687	99		16		40	72 - 121
Carbon disulfide	50.0000	46.4593	93		20		40	35 - 160
Methylene chloride	50.0000	48.9949	98		14		40	55 - 140
trans-1,2-Dichloroethene	50.0000	48.4963	97		14		40	60 - 140
Methyl tert-butyl ether	50.0000	51.5132	103		13		40	65 - 125
1,1-Dichloroethane	50.0000	46.1368	92		19		40	70 - 135
Vinyl acetate	50.0000	53.1928	106		12		40	38 - 163
2-Butanone	50.0000	55.9085	112		3		40	30 - 150
cis-1,2-Dichloroethene	50.0000	48.4894	97		18		40	70 - 125
2,2-Dichloropropane	50.0000	48.8417	98		14		40	70 - 135
Bromochloromethane	50.0000	52.2926	105		11		40	65 - 130
Chloroform	50.0000	48.2681	97		17		40	65 - 135
1,1,1-Trichloroethane	50.0000	47.2839	95		16		40	65 - 130
1,1-Dichloropropene	50.0000	47.1475	94		17		40	75 - 130
Carbon tetrachloride	50.0000	46.4359	93		20		40	65 - 140
1,2-Dichloroethane	50.0000	50.5515	101		15		40	70 - 130
Benzene	50.0000	47.7294	95		20		40	80 - 120
Trichloroethene	50.0000	46.3296	93		18		40	70 - 125
1,2-Dichloropropane	50.0000	49.6506	99		12		40	75 - 125
Dibromomethane	50.0000	47.2724	95		15		40	75 - 125
Bromodichloromethane	50.0000	48.4381	97		18		40	75 - 120
cis-1,3-Dichloropropene	50.0000	51.4500	103		13		40	70 - 130
4-Methyl-2-pentanone	50.0000	55.5623	111		4		40	60 - 135
Toluene	50.0000	48.1676	96		16		40	75 - 120
trans-1,3-Dichloropropene	50.0000	50.0716	100		14		40	55 - 140
1,1,2-Trichloroethane	50.0000	50.7205	101		11		40	75 - 125
1,3-Dichloropropane	50.0000	46.7251	93		19		40	75 - 125
Tetrachloroethene	50.0000	44.9656	90		13		40	45 - 150
2-Hexanone	50.0000	50.2769	101		9		40	55 - 130
Dibromochloromethane	50.0000	46.6822	93		19		40	60 - 135
1,2-Dibromoethane	50.0000	48.5645	97		11		40	80 - 120
Chlorobenzene	50.0000	44.6655	89		14		40	80 - 120
1,1,1,2-Tetrachloroethane	50.0000	46.6618	93		15		40	80 - 130
Ethylbenzene	50.0000	45.0407	90		14		40	75 - 125
m,p-Xylene	100.0000	90.8834	91		13		40	75 - 130
o-Xylene	50.0000	45.1579	90		13		40	80 - 120
Xylene (Total)	150.0000	136.0413	91		13		40	81 - 121
Styrene	50.0000	45.5807	91		16		40	65 - 135

3 - FORM III

WATER LABORATORY CONTROL

SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.

LCSD-59186

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Lab Sample ID: LCSD-59186 LCS Lot No.:

COMPOUND	SPIKE ADDED	LCSD CONCENTRATION	LCSD %REC	#	%RPD	#	QC LIMITS RPD	QC LIMITS REC.
Bromoform	50.0000	48.8601	98		16		40	70 - 130
Isopropylbenzene	50.0000	46.8851	94		8		40	75 - 125
1,1,2,2-Tetrachloroethane	50.0000	50.5249	101		8		40	65 - 130
Bromobenzene	50.0000	48.0450	96		11		40	75 - 125
1,2,3-Trichloropropane	50.0000	53.5879	107		4		40	75 - 125
n-Propylbenzene	50.0000	46.8277	94		7		40	70 - 130
2-Chlorotoluene	50.0000	47.6049	95		12		40	75 - 125
1,3,5-Trimethylbenzene	50.0000	47.2382	94		10		40	75 - 130
4-Chlorotoluene	50.0000	48.1814	96		12		40	75 - 130
tert-Butylbenzene	50.0000	47.5828	95		4		40	70 - 130
1,2,4-Trimethylbenzene	50.0000	47.7115	95		7		40	75 - 130
sec-Butylbenzene	50.0000	45.4704	91		5		40	70 - 125
4-Isopropyltoluene	50.0000	46.5377	93		4		40	75 - 130
1,3-Dichlorobenzene	50.0000	47.7967	96		9		40	75 - 125
1,4-Dichlorobenzene	50.0000	47.2674	95		9		40	75 - 125
n-Butylbenzene	50.0000	46.5593	93		3		40	70 - 135
1,2-Dichlorobenzene	50.0000	48.4567	97		8		40	70 - 120
1,2-Dibromo-3-chloropropan	50.0000	53.0483	106		3		40	50 - 130
1,2,4-Trichlorobenzene	50.0000	46.1964	92		2		40	65 - 135
Hexachlorobutadiene	50.0000	42.8618	86		7		40	50 - 140
1,2,3-Trichlorobenzene	50.0000	49.5559	99		4		40	55 - 140
Naphthalene	50.0000	53.0435	106		4		40	55 - 140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 68 outside limits

Spike Recovery: 0 out of 68 outside limits

COMMENTS:

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
MB-59186

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Lab File ID: V1M1165.D Lab Sample ID: MB-59186

Instrument ID: V1

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 05/16/2011

Level: (TRACE or LOW/MED) LOW Time Analyzed: 11:23

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS-59186	LCS-59186	V1M1162.D	10:04
02	LCSD-59186	LCSD-59186	V1M1163.D	10:30
03	TB-01	K0834-04A	V1M1167.D	12:15
04	SL-MW-12	K0834-01A	V1M1168.D	12:41
05	SL-MW-62	K0834-02A	V1M1169.D	13:08
06	SL-MW-13	K0834-03A	V1M1170.D	13:34
07	SL-MW-14	K0834-05A	V1M1171.D	14:00
08	SL-MW-23S	K0834-06A	V1M1172.D	14:26
09	SL-MW-16	K0834-08A	V1M1174.D	15:19
10	SL-MW-2	K0834-09A	V1M1175.D	15:45
11	SL-MW-3A	K0834-10A	V1M1176.D	16:11
12	SL-MW-3B	K0834-11A	V1M1177.D	16:37
13	SL-MW-4	K0834-12A	V1M1178.D	17:03
14	SL-MW-6A	K0834-13A	V1M1179.D	17:29
15	SL-MW-6B	K0834-14A	V1M1180.D	17:55
16	SL-MW-5	K0834-15A	V1M1181.D	18:21

COMMENTS:

4A - FORM IV VOA

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MB-59208

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Lab File ID: V1M1195.D Lab Sample ID: MB-59208

Instrument ID: V1

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 05/17/2011

Level: (TRACE or LOW/MED) LOW Time Analyzed: 10:14

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS-59208	LCS-59208	V1M1193.D	9:11
02	SL-MW-23D	K0834-07A	V1M1196.D	10:51
03	SL-MW-23SDL	K0834-06ADL	V1M1197.D	11:17
04	SL-MW-4MS	K0834-12AMS	V1M1203.D	14:02
05	SL-MW-4MSD	K0834-12AMSD	V1M1204.D	14:29

COMMENTS:

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.
BFB1M

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Lab File ID: V1M1010.D BFB Injection Date: 05/05/2011

Instrument ID: V1 BFB Injection Time: 8:08

GC Column: DB-624 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.7
75	30.0 - 60.0% of mass 95	41.2
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	66.8
175	5.0 - 9.0% of mass 174	5.4 (8.0)1
176	95.0 - 101.0% of mass 174	65.3 (97.8)1
177	5.0 - 9.0% of mass 176	4.3 (6.5)2

1 - Value is % mass 174 2 - Value is % mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0051M	VSTD0051M	V1M1013.D	05/05/2011	10:41
02	VSTD0201M	VSTD0201M	V1M1014.D	05/05/2011	11:27
03	VSTD0501M	VSTD0501M	V1M1015.D	05/05/2011	11:53
04	VSTD1001M	VSTD1001M	V1M1016.D	05/05/2011	12:19
05	VSTD2001M	VSTD2001M	V1M1017.D	05/05/2011	12:45

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.
BFB1T

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Lab File ID: V1M1160.D BFB Injection Date: 05/16/2011

Instrument ID: V1 BFB Injection Time: 9:06

GC Column: DB-624 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.3
75	30.0 - 60.0% of mass 95	39.7
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	74.6
175	5.0 - 9.0% of mass 174	6.1 (8.2)1
176	95.0 - 101.0% of mass 174	74.8 (100.3)1
177	5.0 - 9.0% of mass 176	4.9 (6.5)2

1 - Value is % mass 174 2 - Value is % mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0501T	VSTD0501T	V1M1161.D	05/16/2011	9:22
02	LCS-59186	LCS-59186	V1M1162.D	05/16/2011	10:04
03	LCSD-59186	LCSD-59186	V1M1163.D	05/16/2011	10:30
04	MB-59186	MB-59186	V1M1165.D	05/16/2011	11:23
05	TB-01	K0834-04A	V1M1167.D	05/16/2011	12:15
06	SL-MW-12	K0834-01A	V1M1168.D	05/16/2011	12:41
07	SL-MW-62	K0834-02A	V1M1169.D	05/16/2011	13:08
08	SL-MW-13	K0834-03A	V1M1170.D	05/16/2011	13:34
09	SL-MW-14	K0834-05A	V1M1171.D	05/16/2011	14:00
10	SL-MW-23S	K0834-06A	V1M1172.D	05/16/2011	14:26
11	SL-MW-16	K0834-08A	V1M1174.D	05/16/2011	15:19
12	SL-MW-2	K0834-09A	V1M1175.D	05/16/2011	15:45
13	SL-MW-3A	K0834-10A	V1M1176.D	05/16/2011	16:11
14	SL-MW-3B	K0834-11A	V1M1177.D	05/16/2011	16:37
15	SL-MW-4	K0834-12A	V1M1178.D	05/16/2011	17:03
16	SL-MW-6A	K0834-13A	V1M1179.D	05/16/2011	17:29
17	SL-MW-6B	K0834-14A	V1M1180.D	05/16/2011	17:55
18	SL-MW-5	K0834-15A	V1M1181.D	05/16/2011	18:21

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.
BFB1U

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Lab File ID: V1M1190.D BFB Injection Date: 05/17/2011

Instrument ID: V1 BFB Injection Time: 7:31

GC Column: DB-624 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.0
75	30.0 - 60.0% of mass 95	41.2
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	67.3
175	5.0 - 9.0% of mass 174	5.6 (8.4)1
176	95.0 - 101.0% of mass 174	64.4 (95.7)1
177	5.0 - 9.0% of mass 176	4.1 (6.4)2

1 - Value is % mass 174 2 - Value is % mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0501U	VSTD0501U	V1M1192.D	05/17/2011	8:26
02	LCS-59208	LCS-59208	V1M1193.D	05/17/2011	9:11
03	MB-59208	MB-59208	V1M1195.D	05/17/2011	10:14
04	SL-MW-23D	K0834-07A	V1M1196.D	05/17/2011	10:51
05	SL-MW-23SDL	K0834-06ADL	V1M1197.D	05/17/2011	11:17
06	SL-MW-4MS	K0834-12AMS	V1M1203.D	05/17/2011	14:02
07	SL-MW-4MSD	K0834-12AMSD	V1M1204.D	05/17/2011	14:29

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 05/05/2011 05/05/2011

EPA Sample No.(VSTD#####): VSTD0501T Date Analyzed: 05/16/2011

Lab File ID (Standard): V1M1161.D Time Analyzed: 9:22

Instrument ID: V1 Heated Purge: (Y/N) N

		IS1 (S1) AREA	#	RT	#	IS2 (S2) AREA	#	RT	#	IS3 (S3) AREA	#	RT	#
	12 HOUR STD	926804		6.45		659061		10.144		305951		12.97	
	UPPER LIMIT	1853608		6.95		1318122		10.644		611902		13.47	
	LOWER LIMIT	463402		5.95		329531		9.644		152976		12.47	
	EPA SAMPLE NO.												
01	LCS-59186	936763		6.455		693687		10.139		331906		12.966	
02	LCSD-59186	900947		6.451		680538		10.125		321985		12.961	
03	MB-59186	862626		6.465		639424		10.139		273622		12.966	
04	TB-01	862645		6.451		620979		10.135		255572		12.961	
05	SL-MW-12	832901		6.440		601086		10.124		268465		12.960	
06	SL-MW-62	826591		6.460		610997		10.134		264386		12.961	
07	SL-MW-13	858147		6.465		609315		10.149		260391		12.976	
08	SL-MW-14	814588		6.455		604031		10.139		249259		12.975	
09	SL-MW-23S	826139		6.461		617215		10.145		253159		12.972	
10	SL-MW-16	817345		6.466		591462		10.150		251816		12.967	
11	SL-MW-2	836902		6.460		600247		10.134		248678		12.970	
12	SL-MW-3A	802259		6.451		593276		10.134		244291		12.971	
13	SL-MW-3B	806965		6.446		595807		10.140		250276		12.967	
14	SL-MW-4	807293		6.451		581500		10.134		242897		12.961	
15	SL-MW-6A	798632		6.446		587113		10.139		243999		12.966	

IS1 () = Fluorobenzene
IS2 () = Chlorobenzene-d5
IS3 () = 1,4-Dichlorobenzene-d4
AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area
AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area
RT UPPER LIMIT = +0.50 (Low-Medium Volatiles) and +0.33 (Trace Volatiles) minutes of internal standard RT
RT LOWER LIMIT = -0.50 (Low-Medium Volatiles) and -0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 05/05/2011 05/05/2011

EPA Sample No.(VSTD#####): VSTD0501T Date Analyzed: 05/16/2011

Lab File ID (Standard): V1M1161.D Time Analyzed: 9:22

Instrument ID: V1 Heated Purge: (Y/N) N

		IS1 (S1) AREA	#	RT	#	IS2 (S2) AREA	#	RT	#	IS3 (S3) AREA	#	RT	#
	12 HOUR STD	926804		6.45		659061		10.144		305951		12.97	
	UPPER LIMIT	1853608		6.95		1318122		10.644		611902		13.47	
	LOWER LIMIT	463402		5.95		329531		9.644		152976		12.47	
	EPA SAMPLE NO.												
16	SL-MW-6B	797215		6.450		575913		10.124		248948		12.961	
17	SL-MW-5	821937		6.423		581937		10.117		245863		12.954	

IS1 () = Fluorobenzene
IS2 () = Chlorobenzene-d5
IS3 () = 1,4-Dichlorobenzene-d4
AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area
AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area
RT UPPER LIMIT = +0.50 (Low-Medium Volatiles) and +0.33 (Trace Volatiles) minutes of internal standard RT
RT LOWER LIMIT = -0.50 (Low-Medium Volatiles) and -0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 05/05/2011 05/05/2011

EPA Sample No.(VSTD#####): VSTD0501U Date Analyzed: 05/17/2011

Lab File ID (Standard): V1M1192.D Time Analyzed: 8:26

Instrument ID: V1 Heated Purge: (Y/N) N

		IS1 (S1) AREA	#	RT	#	IS2 (S2) AREA	#	RT	#	IS3 (S3) AREA	#	RT	#
	12 HOUR STD	926378		6.426		686312		10.109		322830		12.946	
	UPPER LIMIT	1852756		6.926		1372624		10.609		645660		13.446	
	LOWER LIMIT	463189		5.926		343156		9.609		161415		12.446	
	EPA SAMPLE NO.												
01	LCS-59208	898272		6.421		649180		10.114		317777		12.951	
02	MB-59208	849779		6.421		607139		10.105		262635		12.951	
03	SL-MW-23D	829733		6.421		599787		10.104		242971		12.951	
04	SL-MW-23SDL	816999		6.414		595099		10.107		249806		12.954	
05	SL-MW-4MS	825446		6.426		619058		10.110		289640		12.946	
06	SL-MW-4MSD	836602		6.415		622501		10.109		294466		12.946	

IS1 () = Fluorobenzene
IS2 () = Chlorobenzene-d5
IS3 () = 1,4-Dichlorobenzene-d4
AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area
AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area
RT UPPER LIMIT = +0.50 (Low-Medium Volatiles) and +0.33 (Trace Volatiles) minutes of internal standard RT
RT LOWER LIMIT = -0.50 (Low-Medium Volatiles) and -0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-MW-12

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0834-01A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1168.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/13/2011

% Moisture: not dec. Date Analyzed: 05/16/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	1.7	J
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.8	J
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-MW-12

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0834-01A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1168.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/13/2011

% Moisture: not dec. Date Analyzed: 05/16/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
127-18-4	Tetrachloroethene	1.6	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U

Data File: \\avogadro\organics\V1.I\110516.B\V1M1168.D
Report Date: 17-May-2011 11:36

Mitkem Laboratories

Method 8260 Water and Medium Soil

Data file : \\avogadro\organics\V1.I\110516.B\V1M1168.D
Lab Smp Id: K0834-01A Client Smp ID: SL-MW-12
Inj Date : 16-MAY-2011 12:41
Operator : SZ SRC: LIMS Inst ID: V1.i
Smp Info : 5ML,K0834-01A,,59186
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\V1.I\110516.B\v18260Gadd.m
Meth Date : 17-May-2011 11:20 vbrizard Quant Type: ISTD
Cal Date : 05-MAY-2011 12:19 Cal File: V1M1016.D
Als bottle: 35
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

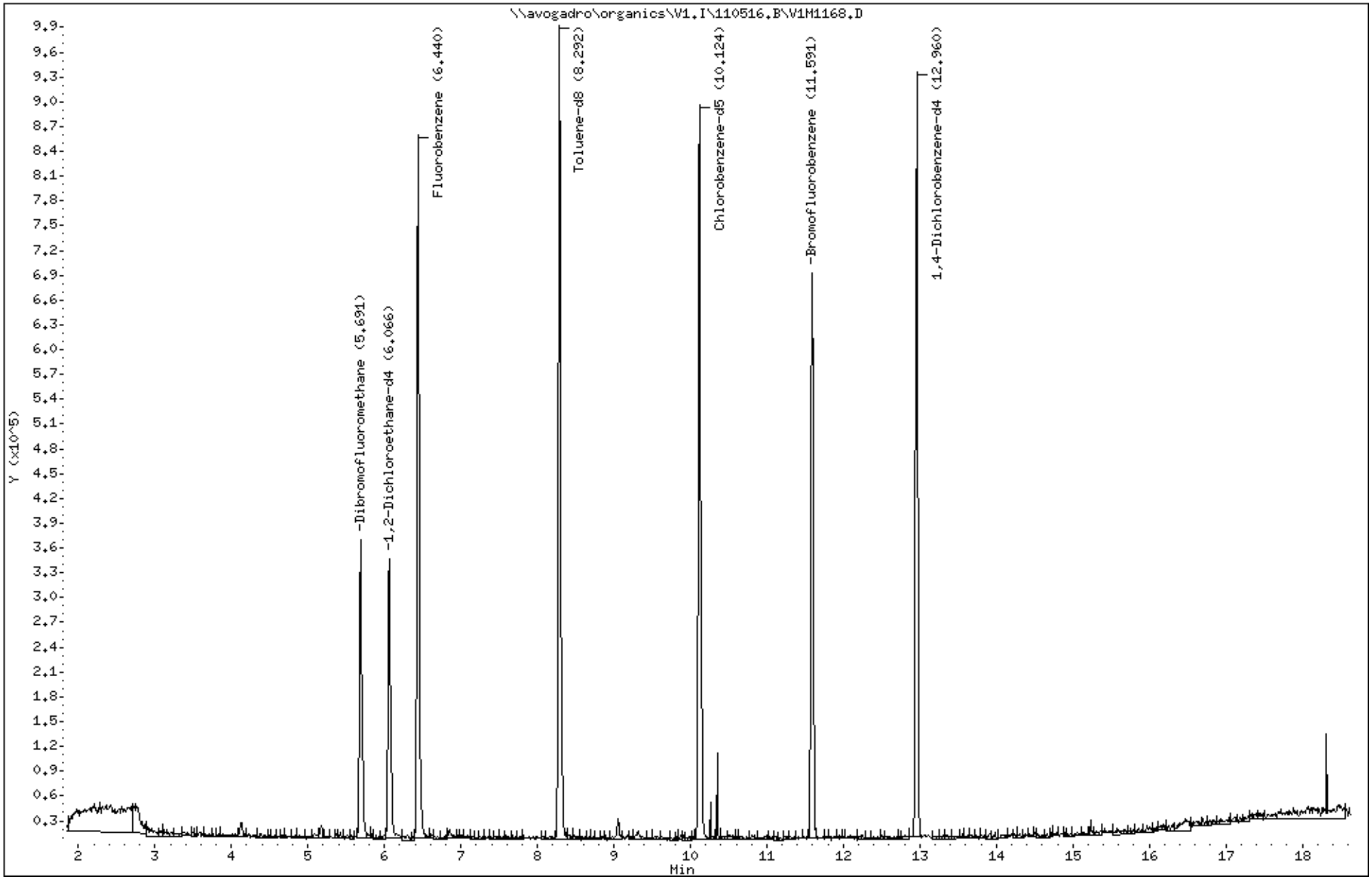
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	22 Methyl tert-butyl ether	73	4.135	4.125	(0.642)	16951	1.66429	2(a)
	28 cis-1,2-Dichloroethene	96	5.169	5.190	(0.803)	8363	1.79453	2(aQ)
$	36 Dibromofluoromethane	113	5.691	5.701	(0.884)	251920	51.2400	51
$	42 1,2-Dichloroethane-d4	102	6.065	6.076	(0.942)	53093	52.3123	52
*	46 Fluorobenzene	96	6.439	6.450	(1.000)	832901	50.0000	
$	58 Toluene-d8	98	8.291	8.302	(0.819)	711277	49.0803	49
	63 Tetrachloroethene	164	9.059	9.070	(0.895)	5173	1.61561	2(aQ)
*	68 Chlorobenzene-d5	117	10.123	10.134	(1.000)	601086	50.0000	
$	79 Bromofluorobenzene	95	11.591	11.591	(1.145)	296242	49.5419	50
*	92 1,4-Dichlorobenzene-d4	152	12.960	12.961	(1.000)	268465	50.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\avogadro\organics\V1.I\110516.B\V1M1168.D
Date : 16-MAY-2011 12:41
Client ID: SL-MW-12
Instrument: V1.i
Sample Info: 5ML,K0834-01A,,59186
Purge Volume: 5.0
Operator: SZ SRC: LIMS
Column phase: DB-624
Column diameter: 0.25



Data File: \\avogadro\organics\V1.I\110516.B\V1M1168.D

Date : 16-MAY-2011 12:41

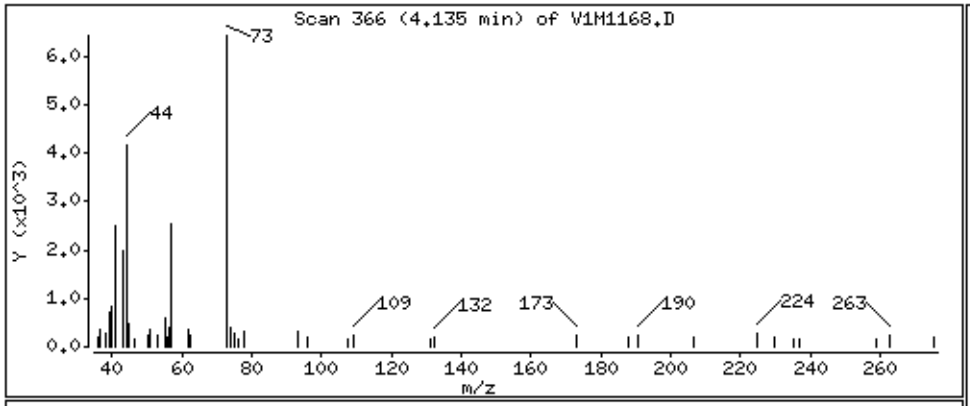
Client ID: SL-MW-12 Instrument: V1.i

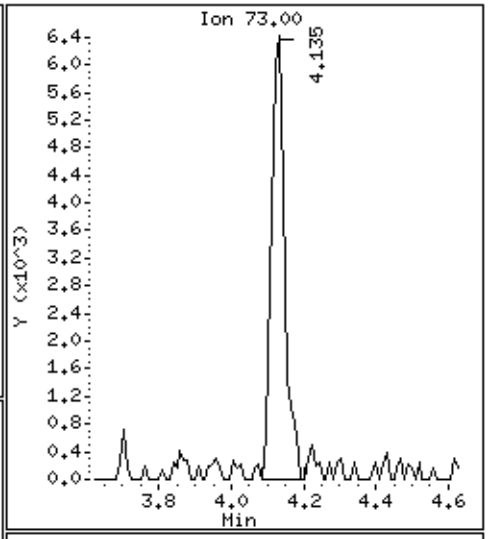
Sample Info: 5ML,K0834-01A,,59186

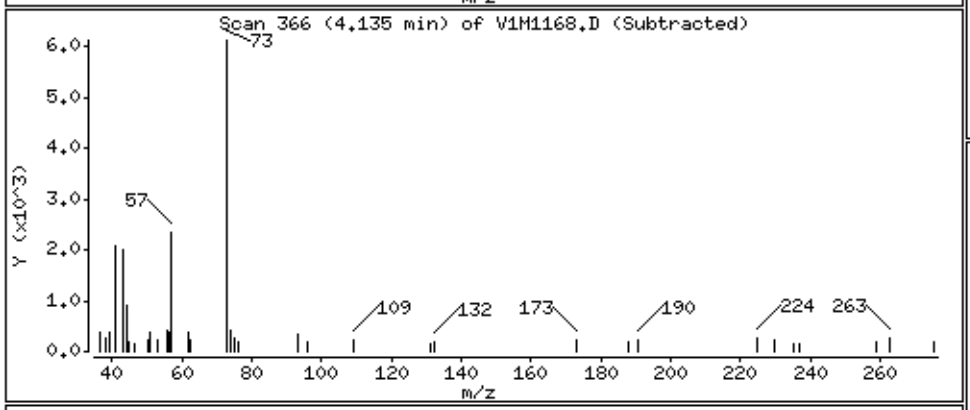
Purge Volume: 5.0 Operator: SZ SRC: LIMS

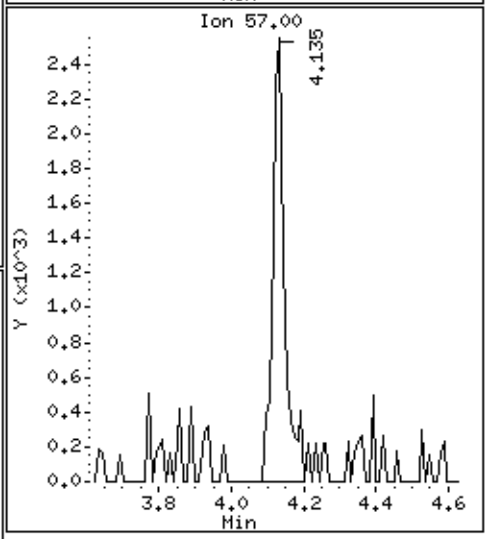
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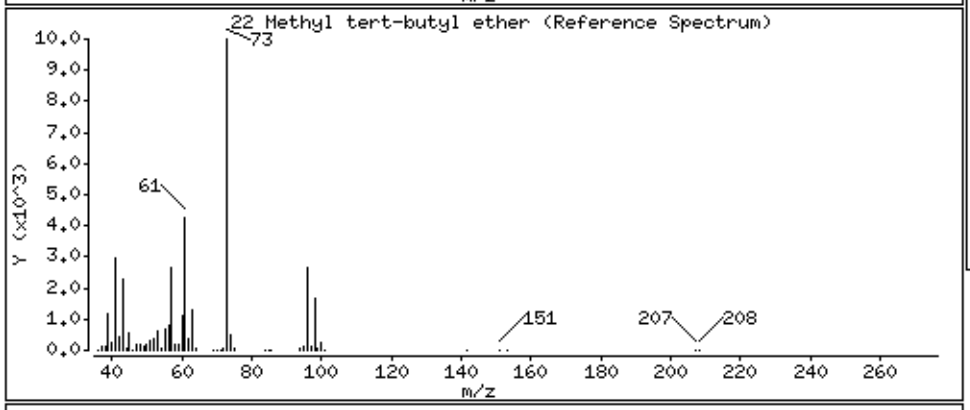
22 Methyl tert-butyl ether Concentration: 2 ug/L

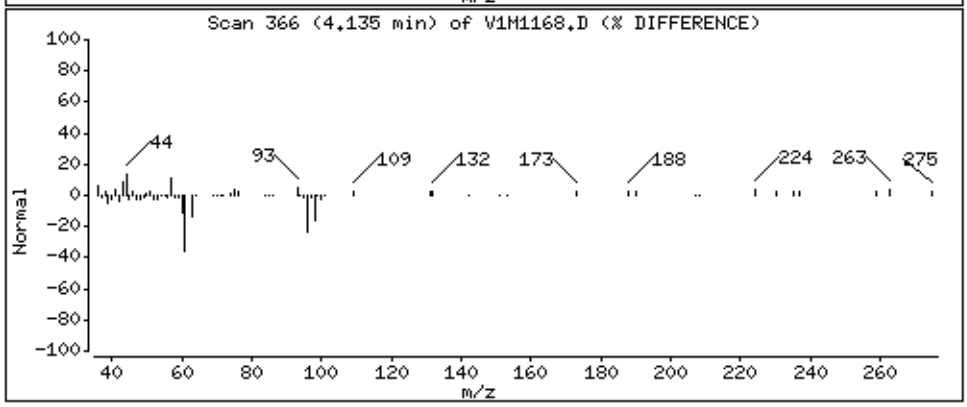












Data File: \\avogadro\organics\V1.I\110516.B\V1M1168.D

Date : 16-MAY-2011 12:41

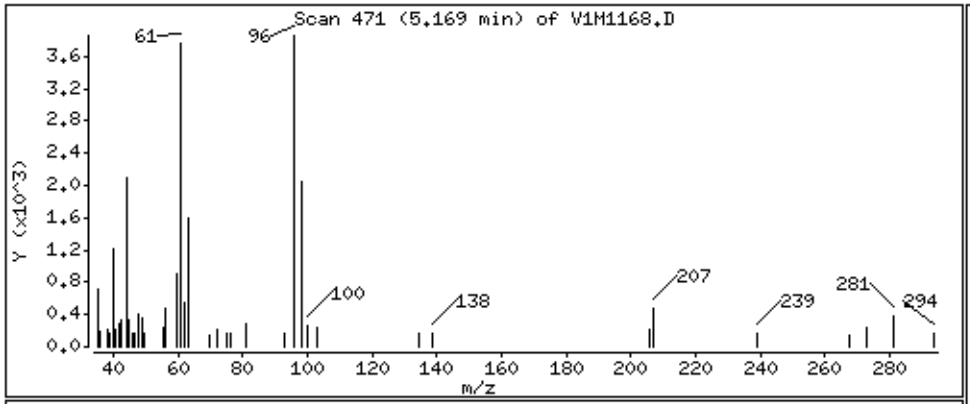
Client ID: SL-MW-12 Instrument: V1.i

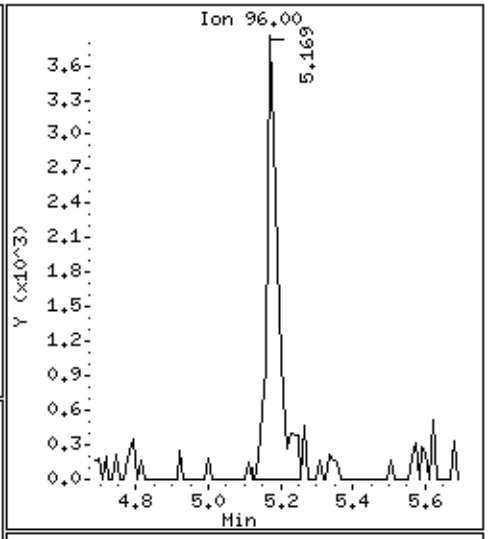
Sample Info: 5ML,K0834-01A,,59186

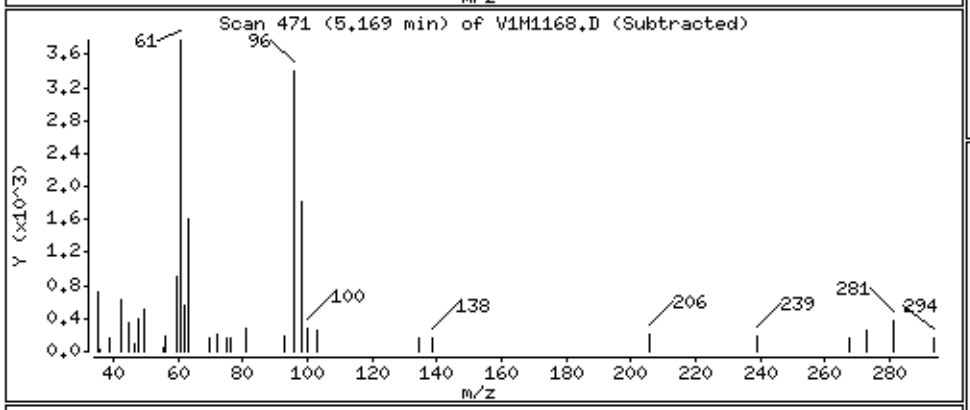
Purge Volume: 5.0 Operator: SZ SRC: LIMS

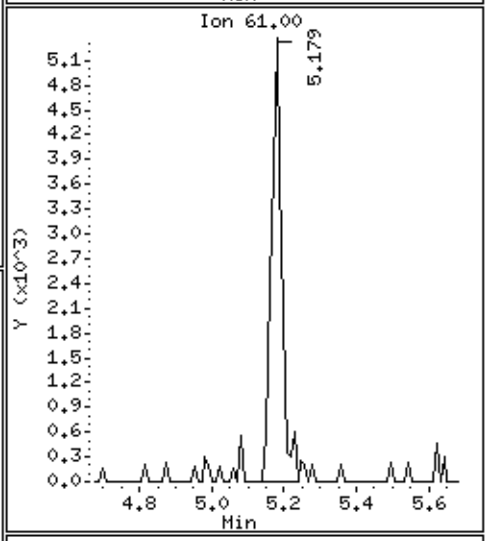
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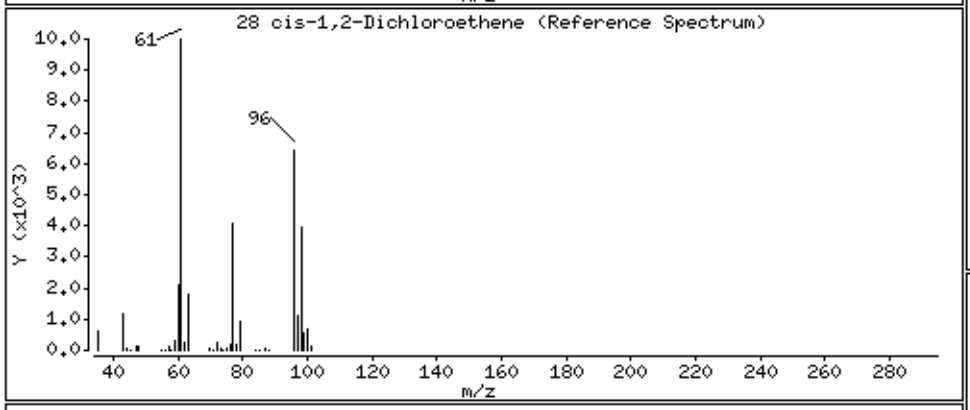
28 cis-1,2-Dichloroethene Concentration: 2 ug/L

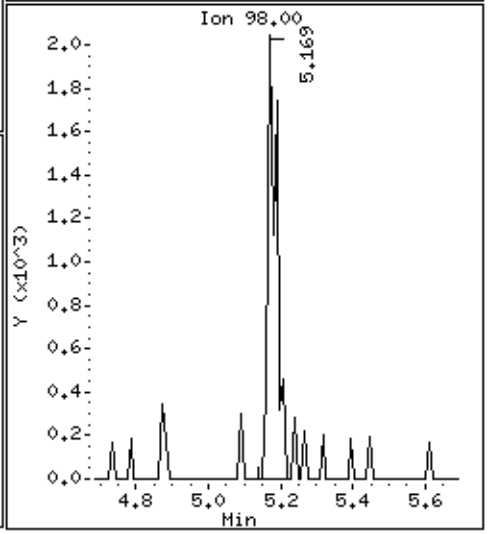


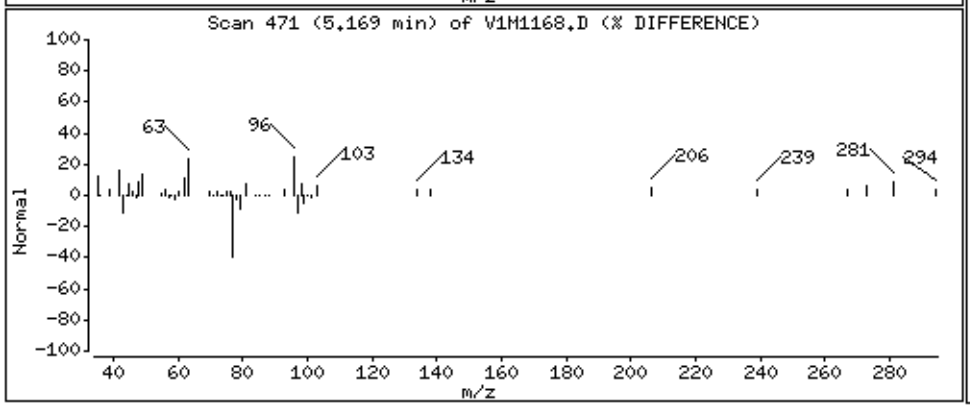












Data File: \\avogadro\organics\V1.I\110516.B\V1M1168.D

Date : 16-MAY-2011 12:41

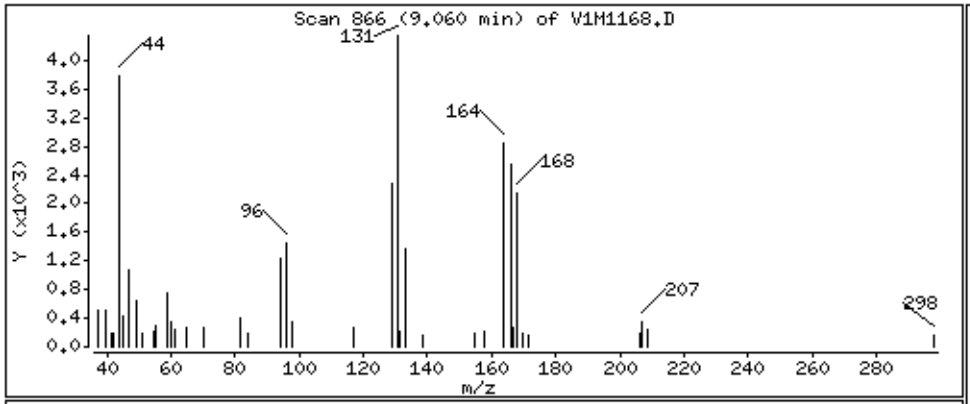
Client ID: SL-MW-12 Instrument: V1.i

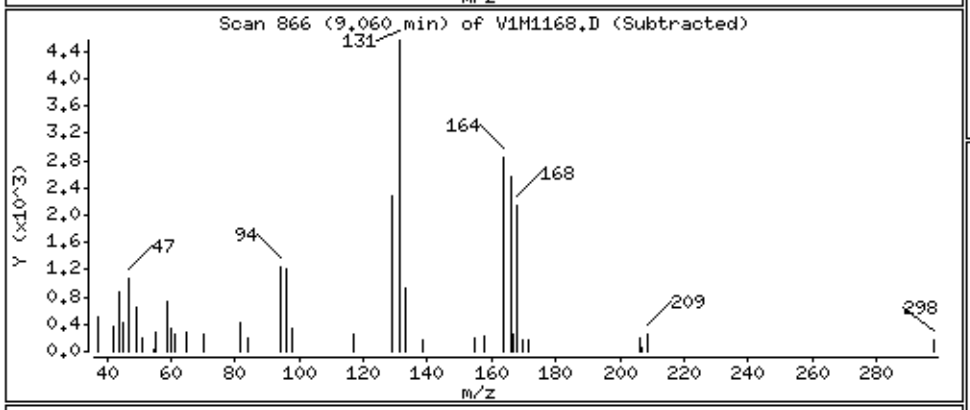
Sample Info: 5ML,K0834-01A,,59186

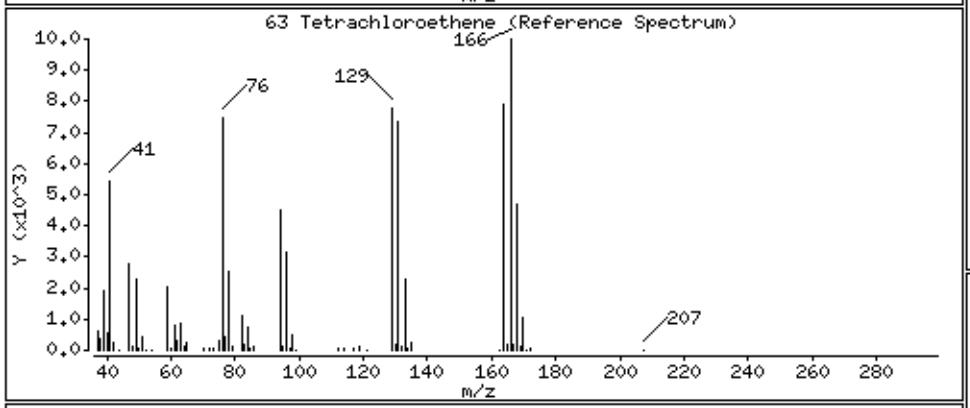
Purge Volume: 5.0 Operator: SZ SRC: LIMS

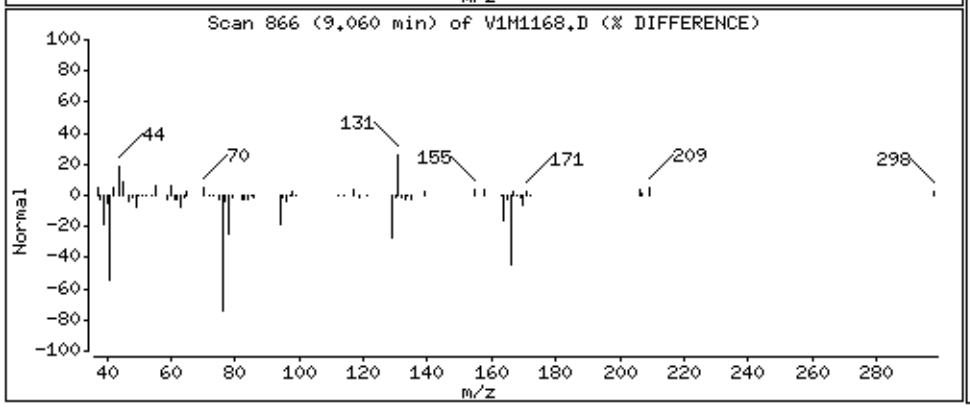
Column phase: DB-624 Column diameter: 0.25

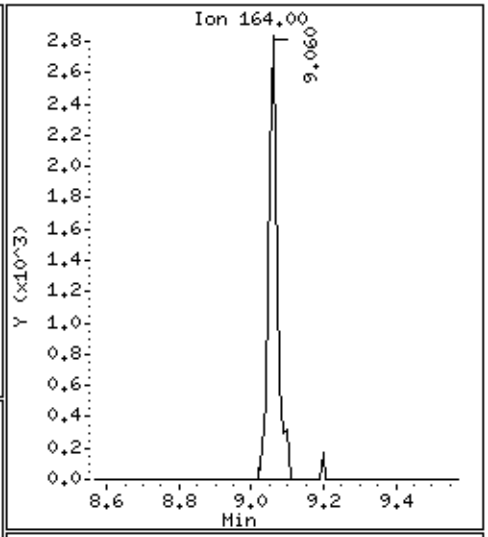
63 Tetrachloroethene Concentration: 2 ug/L

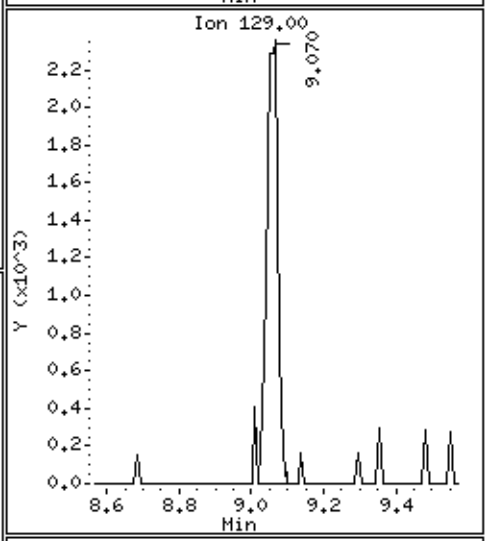


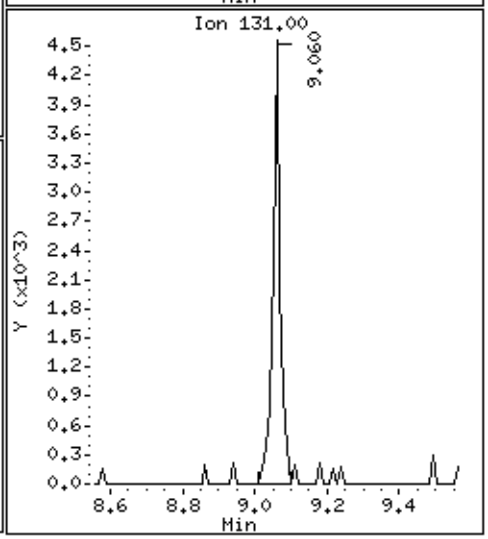












1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-MW-62

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0834-02A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1169.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/13/2011

% Moisture: not dec. Date Analyzed: 05/16/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	1.7	J
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.6	J
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-MW-62

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0834-02A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1169.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/13/2011

% Moisture: not dec. Date Analyzed: 05/16/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
127-18-4	Tetrachloroethene	1.8	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U

Data File: \\avogadro\organics\V1.I\110516.B\V1M1169.D
Report Date: 17-May-2011 11:36

Mitkem Laboratories

Method 8260 Water and Medium Soil

Data file : \\avogadro\organics\V1.I\110516.B\V1M1169.D
Lab Smp Id: K0834-02A Client Smp ID: SL-MW-62
Inj Date : 16-MAY-2011 13:08
Operator : SZ SRC: LIMS Inst ID: V1.i
Smp Info : 5ML,K0834-02A,,59186
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\V1.I\110516.B\v18260Gadd.m
Meth Date : 17-May-2011 11:20 vbrizard Quant Type: ISTD
Cal Date : 05-MAY-2011 12:19 Cal File: V1M1016.D
Als bottle: 36
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

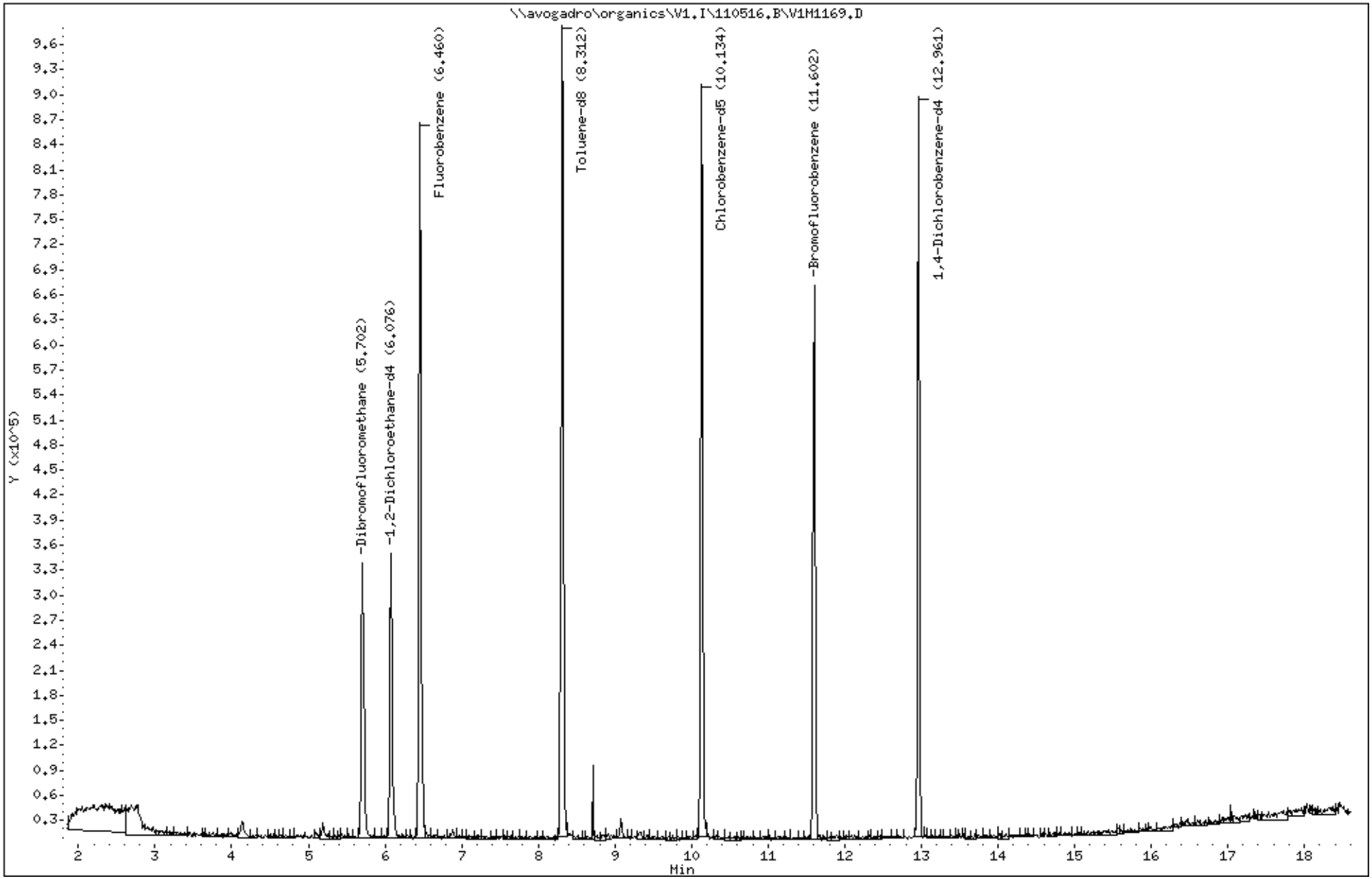
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	22 Methyl tert-butyl ether	73	4.135	4.125	(0.640)	17346	1.71607	2(a)
	28 cis-1,2-Dichloroethene	96	5.189	5.190	(0.803)	7454	1.61169	2(aQ)
$	36 Dibromofluoromethane	113	5.701	5.701	(0.883)	256311	52.5311	52
$	42 1,2-Dichloroethane-d4	102	6.075	6.076	(0.941)	53044	52.6630	53
*	46 Fluorobenzene	96	6.460	6.450	(1.000)	826591	50.0000	
$	58 Toluene-d8	98	8.311	8.302	(0.820)	712811	48.3883	48
	63 Tetrachloroethene	164	9.080	9.070	(0.896)	5718	1.75686	2(a)
*	68 Chlorobenzene-d5	117	10.133	10.134	(1.000)	610997	50.0000	
$	79 Bromofluorobenzene	95	11.601	11.591	(1.145)	292154	48.0657	48
*	92 1,4-Dichlorobenzene-d4	152	12.960	12.961	(1.000)	264386	50.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\avogadro\organics\V1.I\110516.B\V1M1169.D
Date : 16-MAY-2011 13:08
Client ID: SL-MW-62
Instrument: V1.i
Sample Info: 5ML,K0834-02A,,59186
Purge Volume: 5.0
Operator: SZ SRC: LIMS
Column phase: DB-624
Column diameter: 0.25



Data File: \\avogadro\organics\V1.I\110516.B\V1M1169.D

Date : 16-MAY-2011 13:08

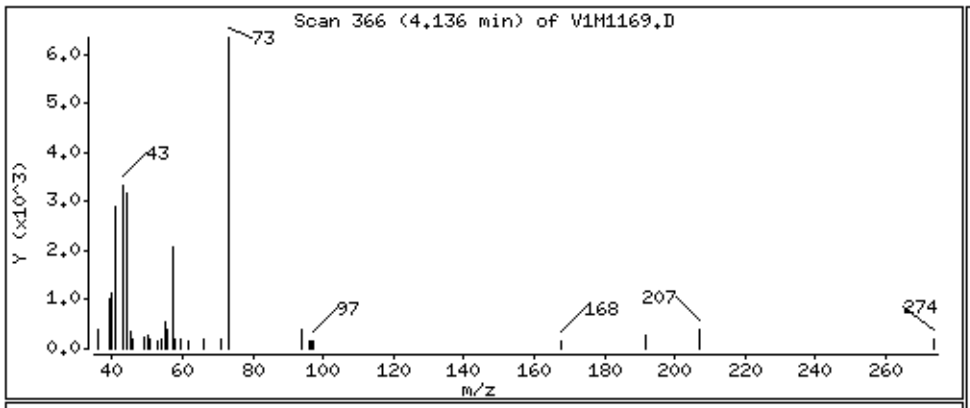
Client ID: SL-MW-62 Instrument: V1.i

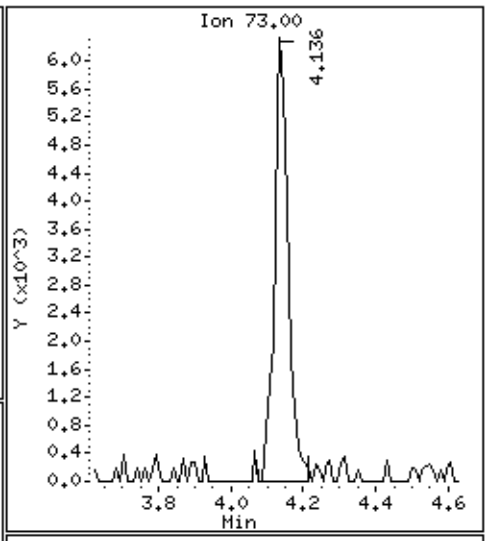
Sample Info: 5ML,K0834-02A,,59186

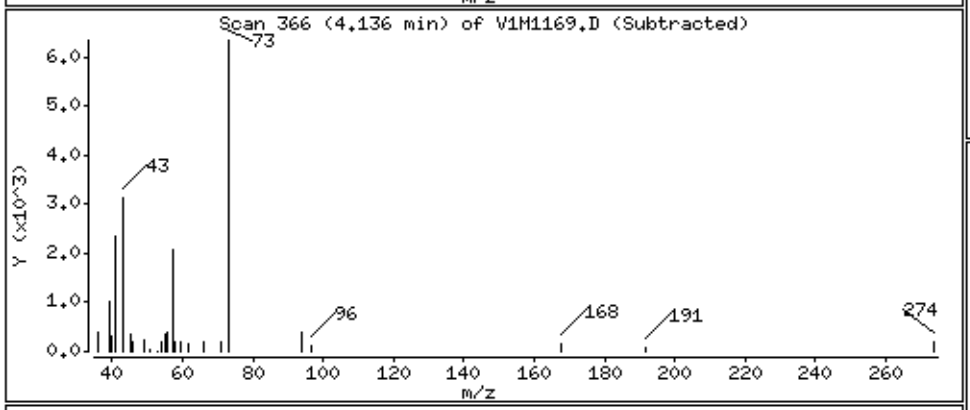
Purge Volume: 5.0 Operator: SZ SRC: LIMS

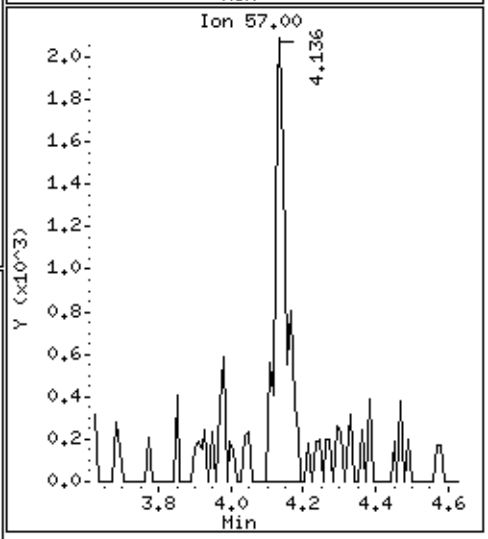
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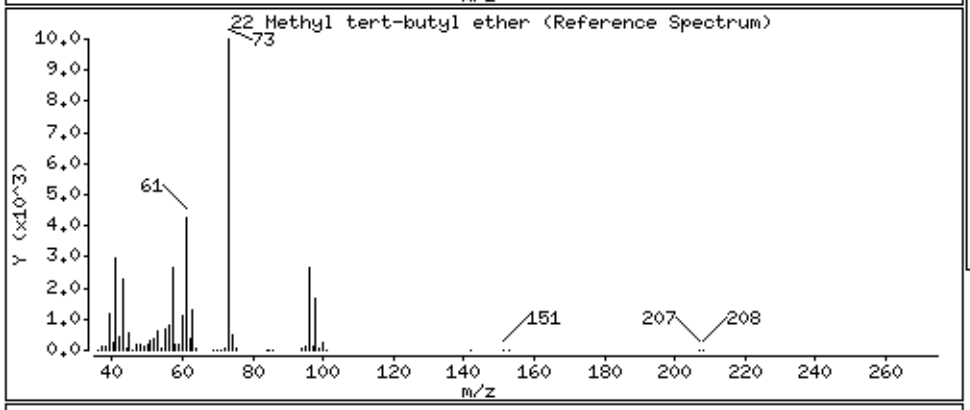
22 Methyl tert-butyl ether Concentration: 2 ug/L

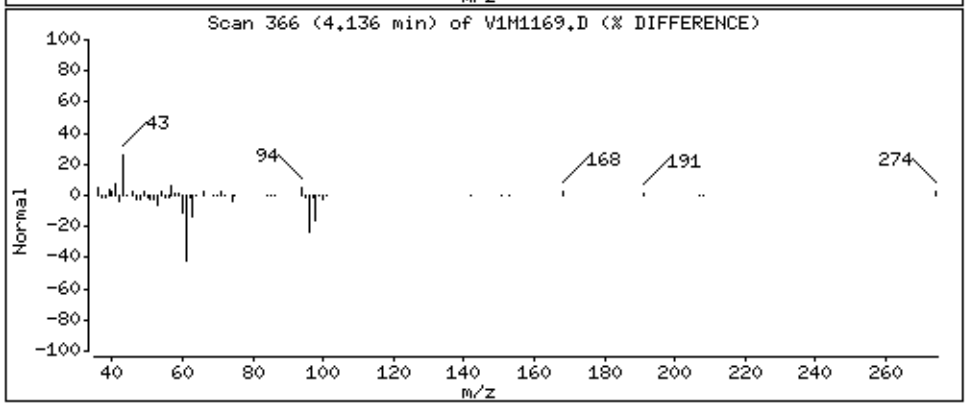












Data File: \\avogadro\organics\V1.I\110516.B\V1M1169.D

Date : 16-MAY-2011 13:08

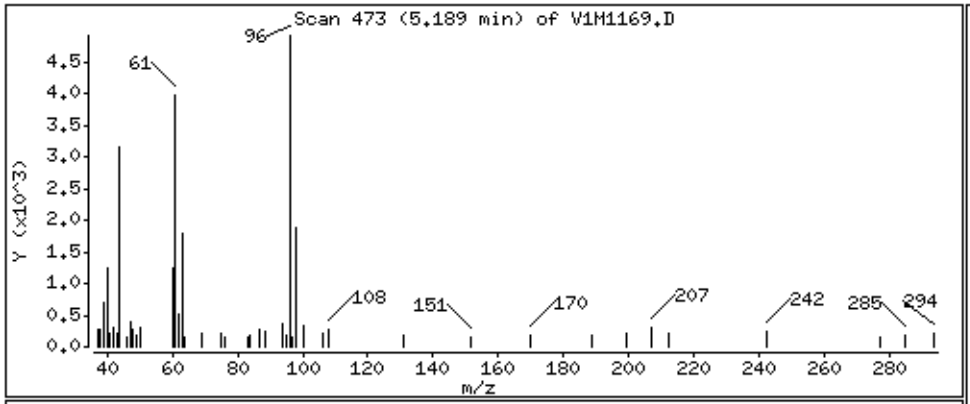
Client ID: SL-MW-62 Instrument: V1.i

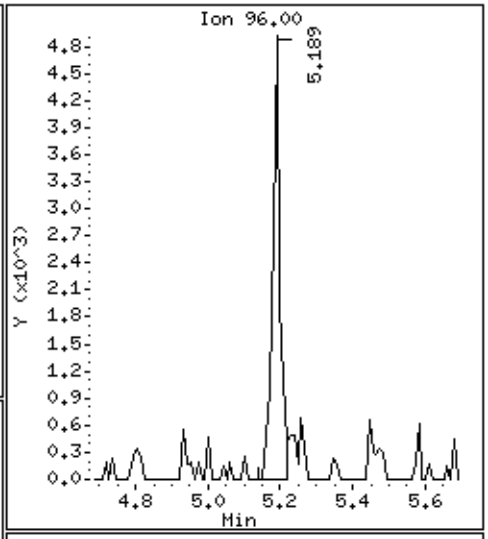
Sample Info: 5ML,K0834-02A,,59186

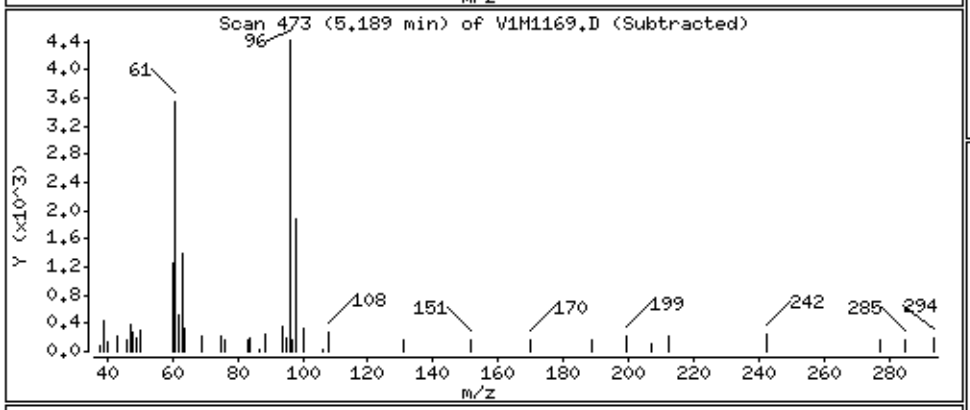
Purge Volume: 5.0 Operator: SZ SRC: LIMS

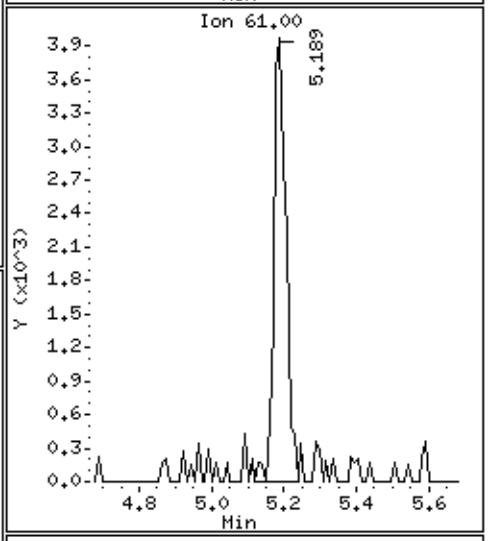
Column phase: DB-624 Column diameter: 0.25

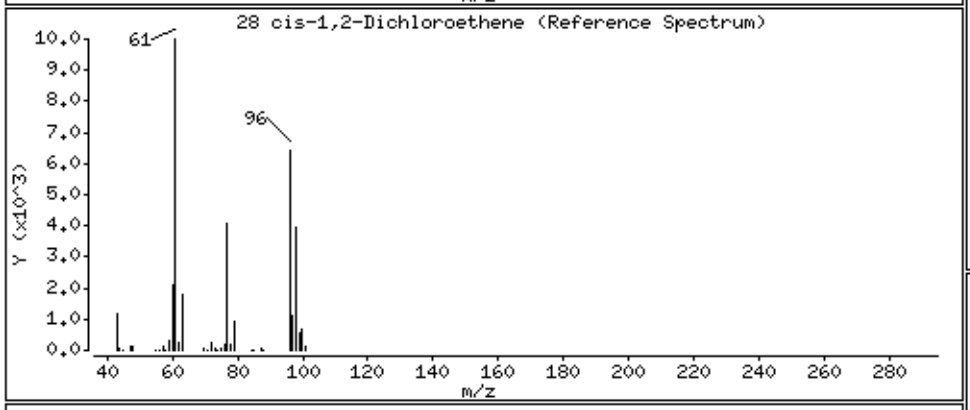
28 cis-1,2-Dichloroethene Concentration: 2 ug/L

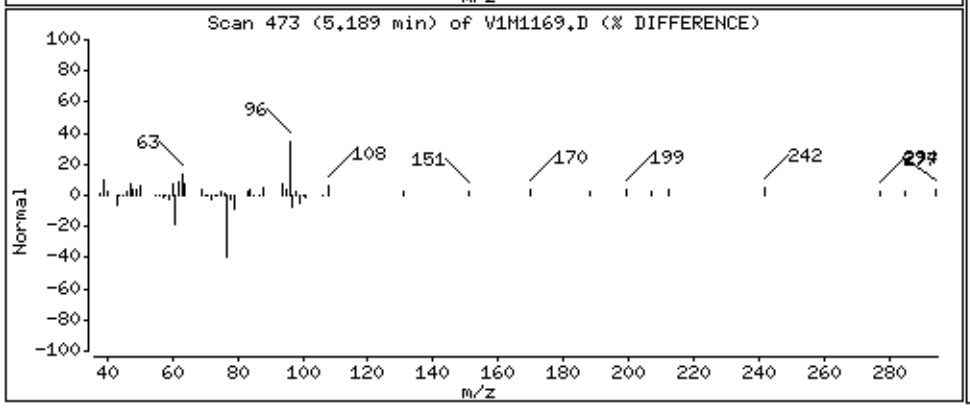


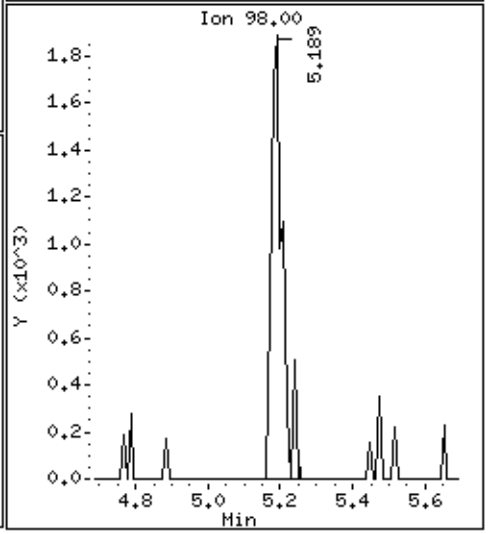












Data File: \\avogadro\organics\V1.I\110516.B\V1M1169.D

Date : 16-MAY-2011 13:08

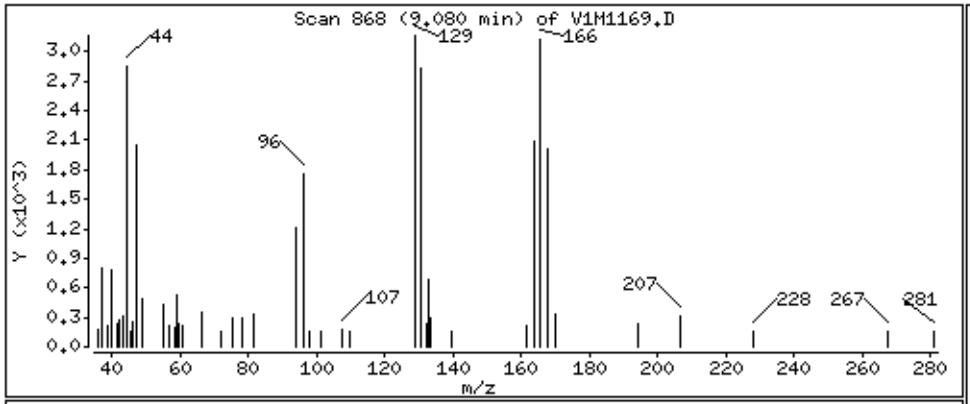
Client ID: SL-MW-62 Instrument: V1.i

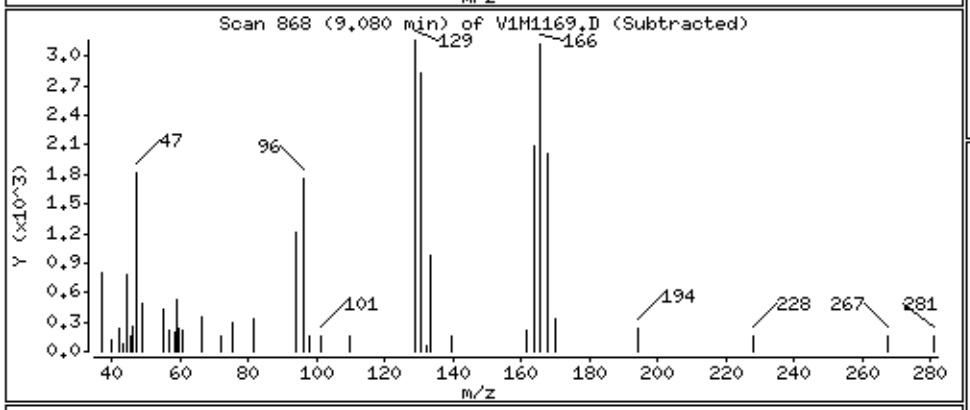
Sample Info: 5ML,K0834-02A,,59186

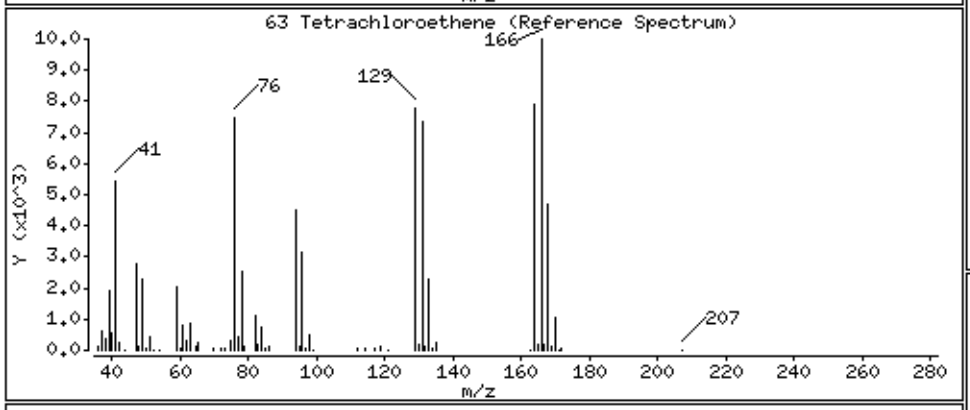
Purge Volume: 5.0 Operator: SZ SRC: LIMS

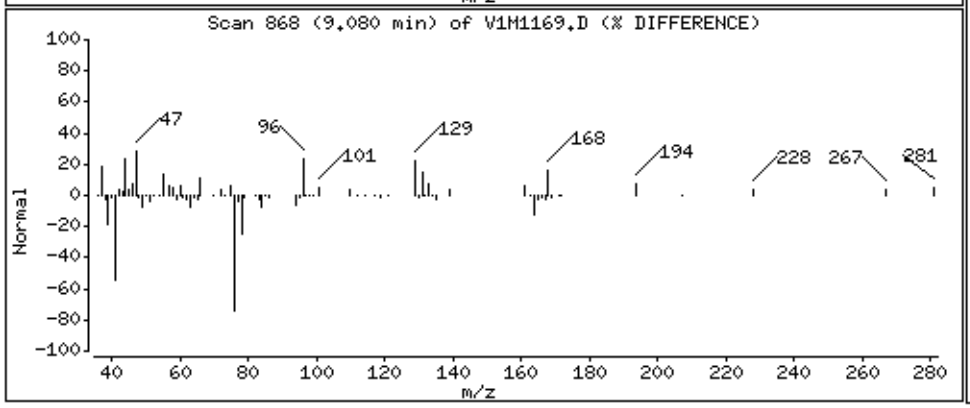
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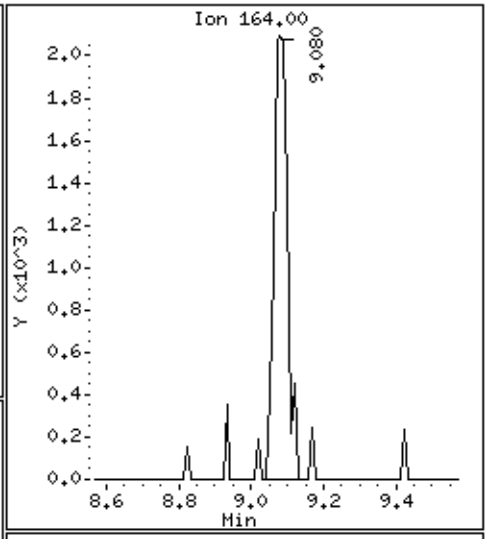
63 Tetrachloroethene Concentration: 2 ug/L

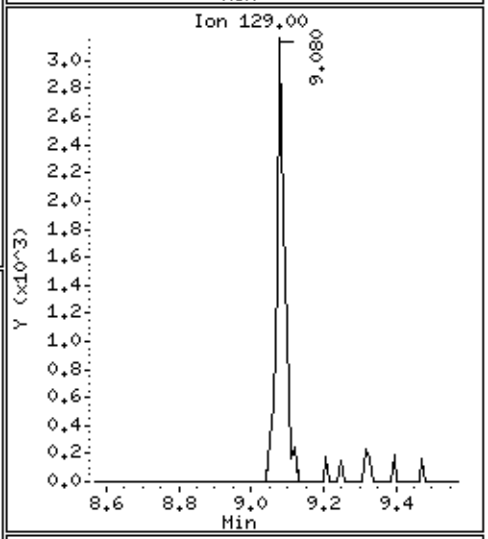


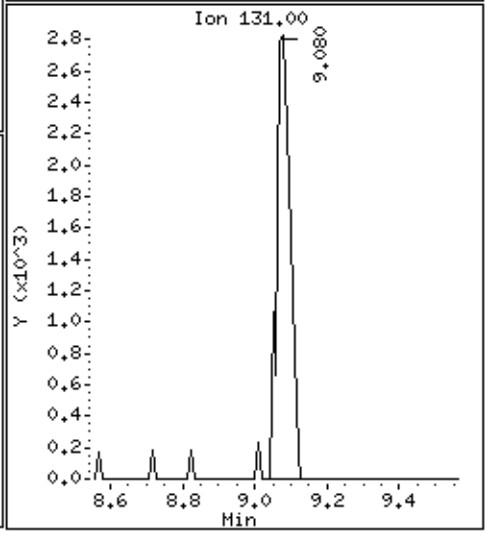












1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-MW-13

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0834-03A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1170.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/13/2011

% Moisture: not dec. Date Analyzed: 05/16/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-MW-13

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0834-03A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1170.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/13/2011

% Moisture: not dec. Date Analyzed: 05/16/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U

Data File: \\avogadro\organics\V1.I\110516.B\V1M1170.D
Report Date: 17-May-2011 11:36

Mitkem Laboratories

Method 8260 Water and Medium Soil

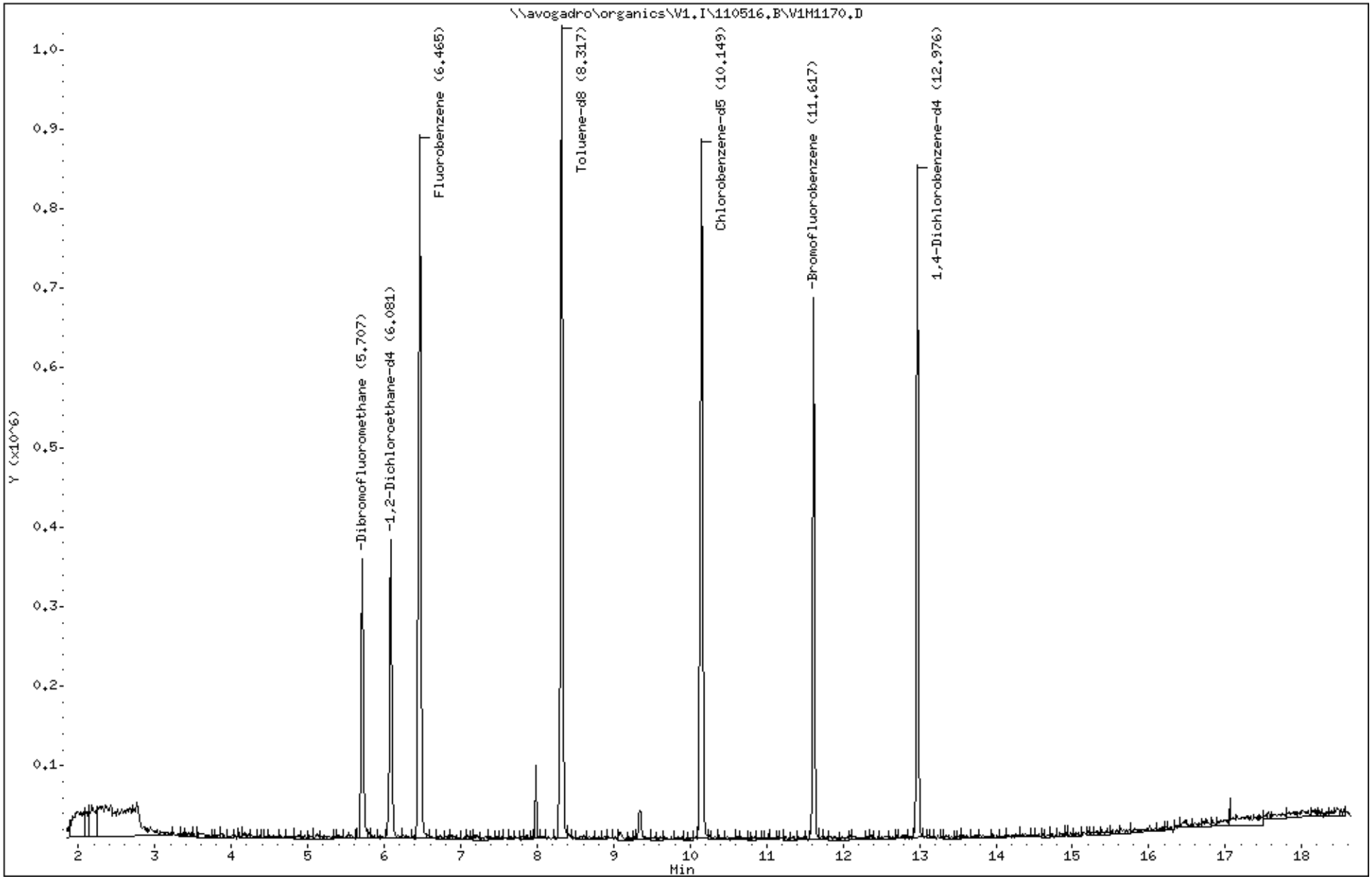
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Lab Smp Id: K0834-03A Client Smp ID: SL-MW-13
Inj Date : 16-MAY-2011 13:34
Operator : SZ SRC: LIMS Inst ID: V1.i
Smp Info : 5ML,K0834-03A,,59186
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\V1.I\110516.B\v18260Gadd.m
Meth Date : 17-May-2011 11:20 vbrizard Quant Type: ISTD
Cal Date : 05-MAY-2011 12:19 Cal File: V1M1016.D
Als bottle: 37
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
$ 36 Dibromofluoromethane	113	5.706	5.701	(0.883)	258281	50.9883	51
$ 42 1,2-Dichloroethane-d4	102	6.081	6.076	(0.941)	53199	50.8747	51
* 46 Fluorobenzene	96	6.465	6.450	(1.000)	858147	50.0000	
$ 58 Toluene-d8	98	8.316	8.302	(0.819)	742179	50.5210	50
* 68 Chlorobenzene-d5	117	10.148	10.134	(1.000)	609315	50.0000	
$ 79 Bromofluorobenzene	95	11.616	11.591	(1.145)	287295	47.3968	47
* 92 1,4-Dichlorobenzene-d4	152	12.975	12.961	(1.000)	260391	50.0000	

Data File: \\avogadro\organics\V1.I\110516.B\V1M1170.D
Date : 16-MAY-2011 13:34
Client ID: SL-MW-13
Instrument: V1.i
Sample Info: 5ML,K0834-03A,,59186
Purge Volume: 5.0
Operator: SZ SRC: LIMS
Column phase: DB-624
Column diameter: 0.25



1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-01

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0834-04A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1167.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/13/2011

% Moisture: not dec. Date Analyzed: 05/16/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-01

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0834-04A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1167.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/13/2011

% Moisture: not dec. Date Analyzed: 05/16/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U

Data File: \\avogadro\organics\V1.I\110516.B\V1M1167.D
Report Date: 17-May-2011 11:35

Mitkem Laboratories

Method 8260 Water and Medium Soil

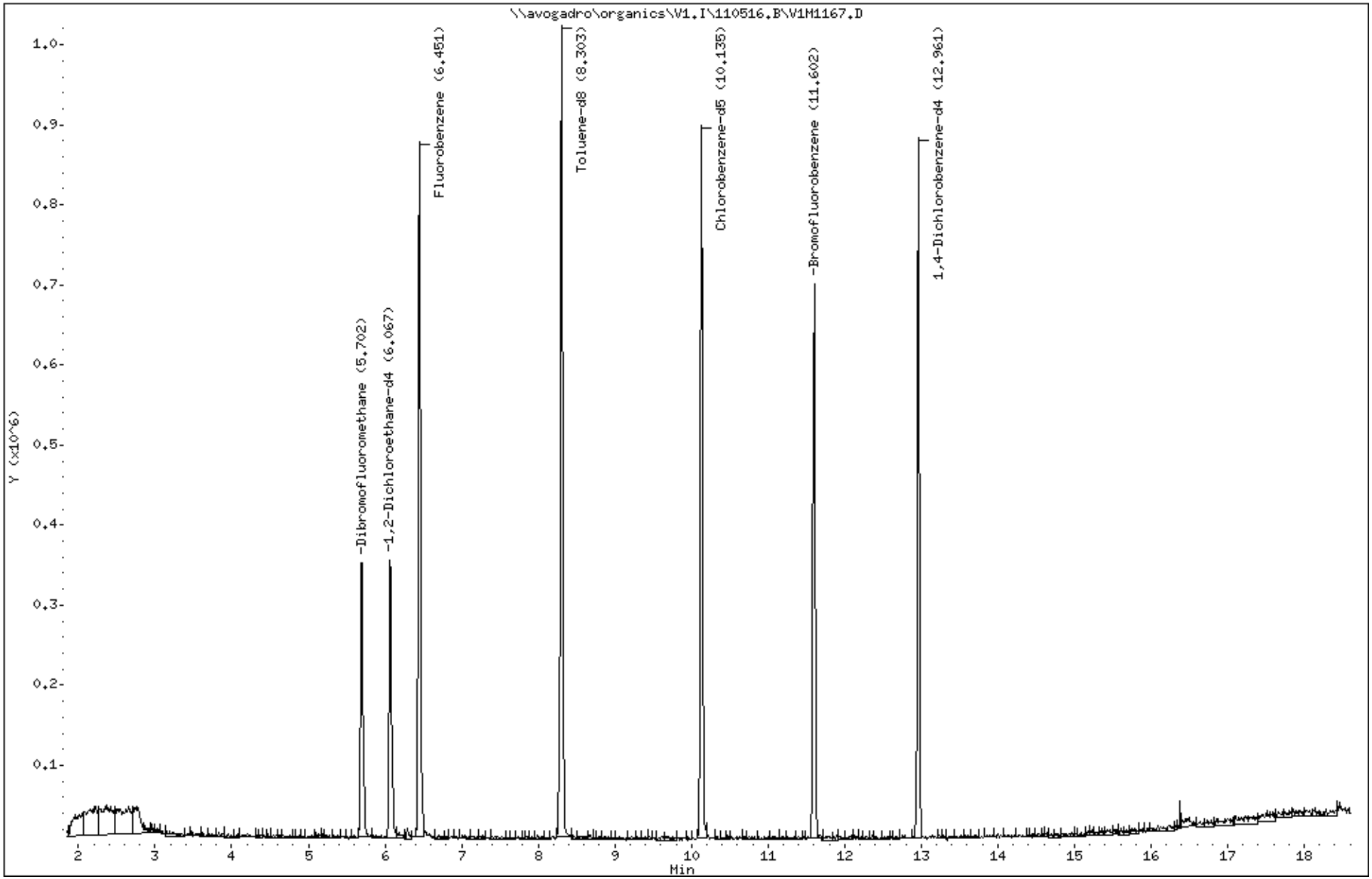
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Lab Smp Id: K0834-04A Client Smp ID: TB-01
Inj Date : 16-MAY-2011 12:15
Operator : SZ SRC: LIMS Inst ID: V1.i
Smp Info : 5ML,K0834-04A,,59186
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\V1.I\110516.B\v18260Gadd.m
Meth Date : 17-May-2011 11:20 vbrizard Quant Type: ISTD
Cal Date : 05-MAY-2011 12:19 Cal File: V1M1016.D
Als bottle: 34
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
$ 36 Dibromofluoromethane	113	5.692	5.701	(0.882)	264695	51.9820	52
$ 42 1,2-Dichloroethane-d4	102	6.066	6.076	(0.940)	56175	53.4405	53
* 46 Fluorobenzene	96	6.450	6.450	(1.000)	862645	50.0000	
$ 58 Toluene-d8	98	8.302	8.302	(0.819)	738838	49.3489	49
* 68 Chlorobenzene-d5	117	10.134	10.134	(1.000)	620979	50.0000	
$ 79 Bromofluorobenzene	95	11.602	11.591	(1.145)	296231	47.9531	48
* 92 1,4-Dichlorobenzene-d4	152	12.961	12.961	(1.000)	255572	50.0000	

Data File: \\avogadro\organics\V1.I\110516.B\V1M1167.D
Date : 16-MAY-2011 12:15
Client ID: TB-01
Instrument: V1.i
Sample Info: 5ML,K0834-04A,,59186
Purge Volume: 5.0
Operator: SZ SRC: LIMS
Column phase: DB-624
Column diameter: 0.25



1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-MW-14

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0834-05A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1171.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/13/2011

% Moisture: not dec. Date Analyzed: 05/16/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	8.0	
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-MW-14

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0834-05A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1171.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/13/2011

% Moisture: not dec. Date Analyzed: 05/16/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U

Data File: \\avogadro\organics\V1.I\110516.B\V1M1171.D
Report Date: 17-May-2011 11:36

Mitkem Laboratories

Method 8260 Water and Medium Soil

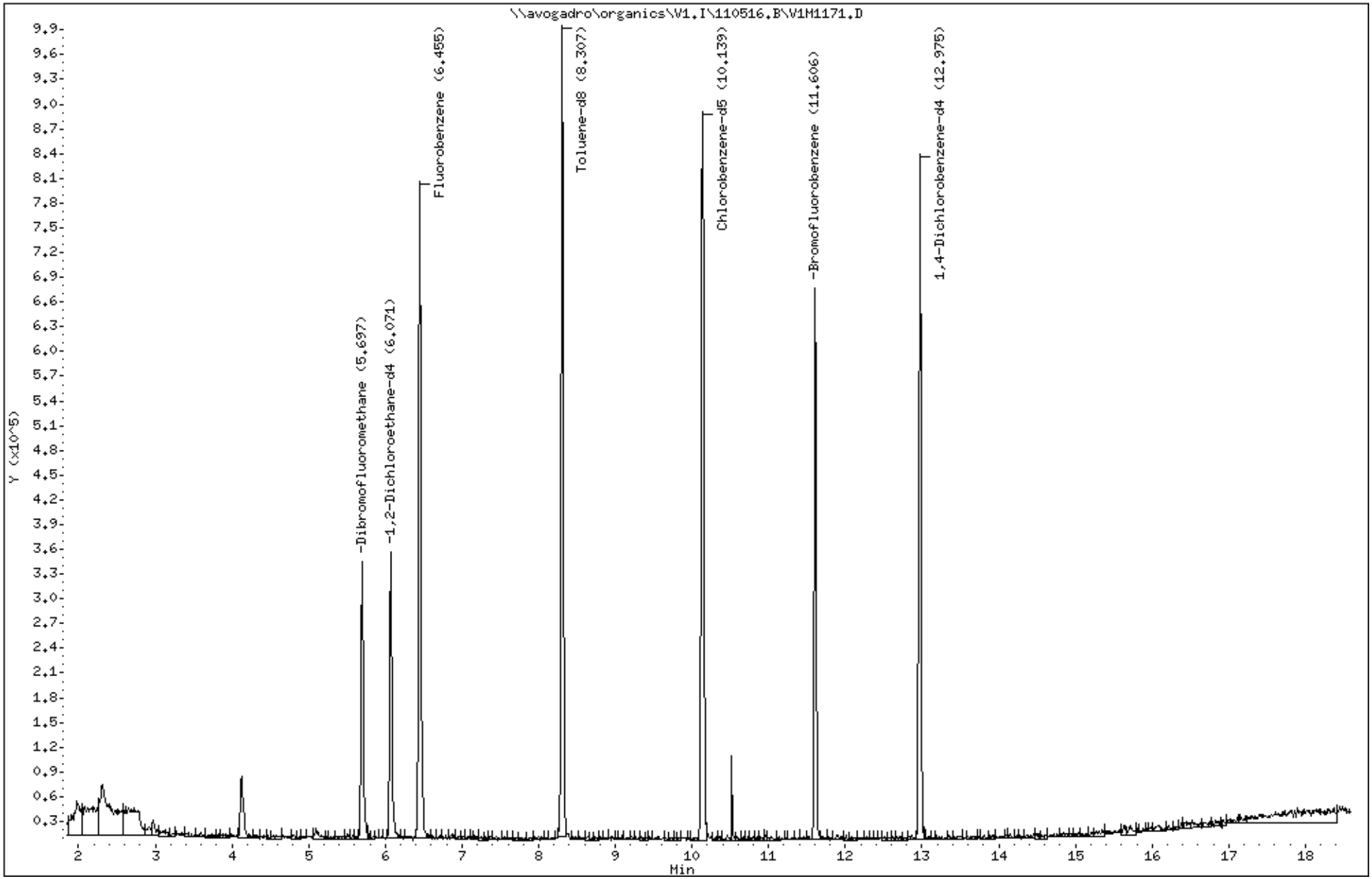
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Lab Smp Id: K0834-05A Client Smp ID: SL-MW-14
Inj Date : 16-MAY-2011 14:00
Operator : SZ SRC: LIMS Inst ID: V1.i
Smp Info : 5ML,K0834-05A,,59186
Misc Info :
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Meth Date : 17-May-2011 11:20 vbrizard Quant Type: ISTD
Cal Date : 05-MAY-2011 12:19 Cal File: V1M1016.D
Als bottle: 38
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	22 Methyl tert-butyl ether	73	4.130	4.125	(0.640)	80047	8.03590	8
$	36 Dibromofluoromethane	113	5.696	5.701	(0.883)	249802	51.9514	52
$	42 1,2-Dichloroethane-d4	102	6.070	6.076	(0.940)	50698	51.0755	51
*	46 Fluorobenzene	96	6.454	6.450	(1.000)	814588	50.0000	
$	58 Toluene-d8	98	8.306	8.302	(0.819)	714792	49.0824	49
*	68 Chlorobenzene-d5	117	10.138	10.134	(1.000)	604031	50.0000	
$	79 Bromofluorobenzene	95	11.606	11.591	(1.145)	281864	46.9076	47
*	92 1,4-Dichlorobenzene-d4	152	12.975	12.961	(1.000)	249259	50.0000	

Data File: \\avogadro\organics\V1.I\110516.B\V1M1171.D
Date : 16-MAY-2011 14:00
Client ID: SL-MW-14
Instrument: V1.i
Sample Info: 5ML,K0834-05A,,59186
Purge Volume: 5.0
Operator: SZ SRC: LIMS
Column phase: DB-624
Column diameter: 0.25



Data File: \\avogadro\organics\V1.I\110516.B\V1M1171.D

Date : 16-MAY-2011 14:00

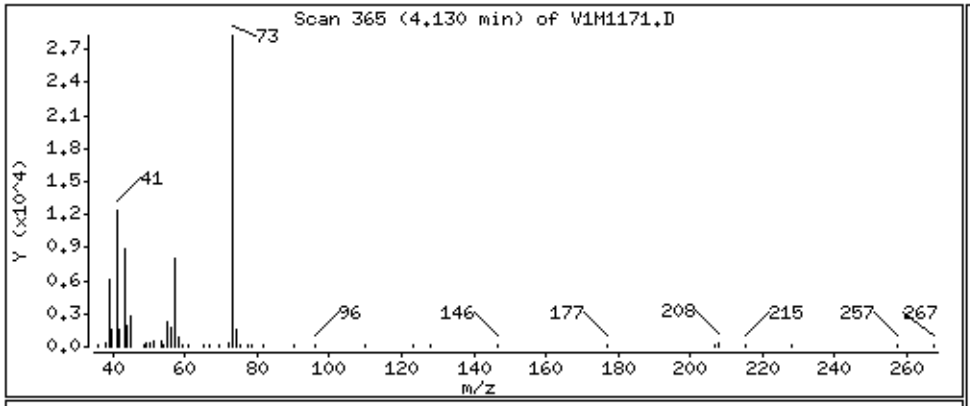
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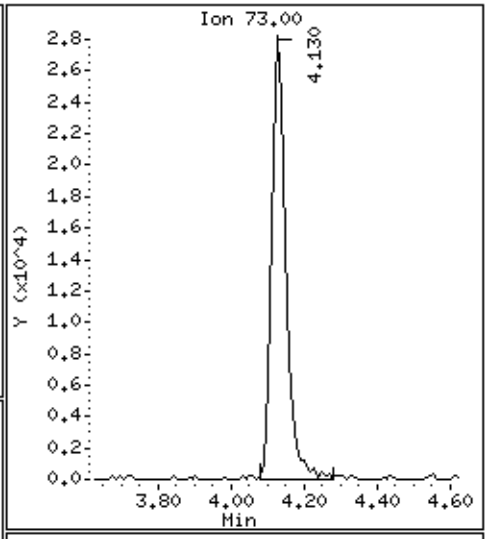
Sample Info: 5ML,K0834-05A,,59186

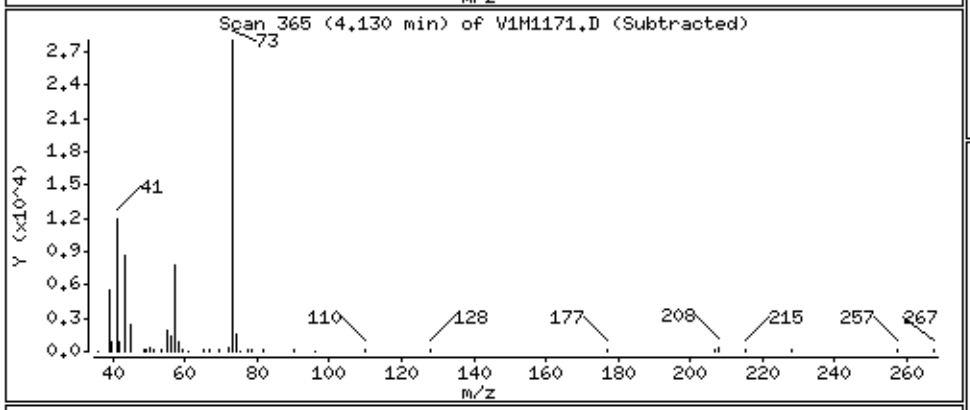
Purge Volume: 5.0 Operator: SZ SRC: LIMS

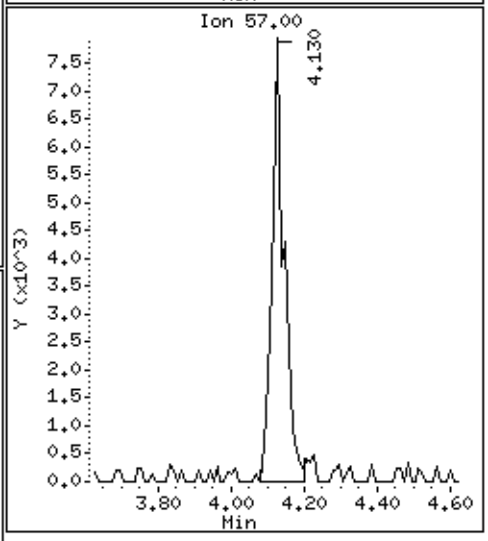
Column phase: DB-624 Column diameter: 0.25

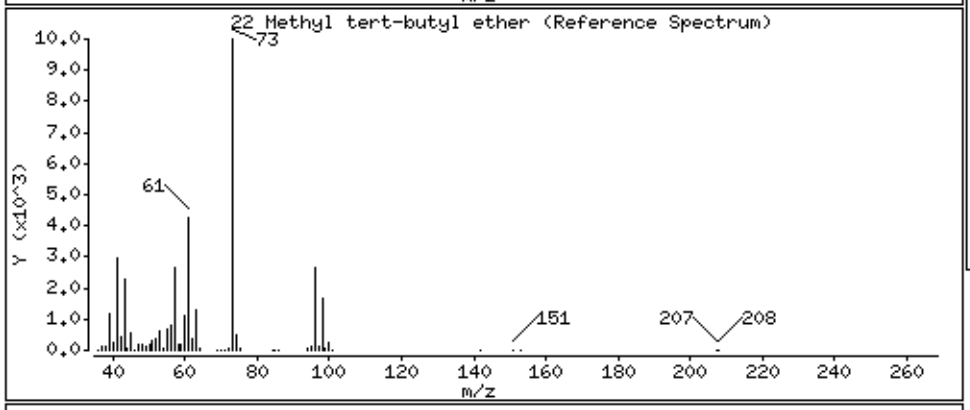
22 Methyl tert-butyl ether Concentration: 8 ug/L

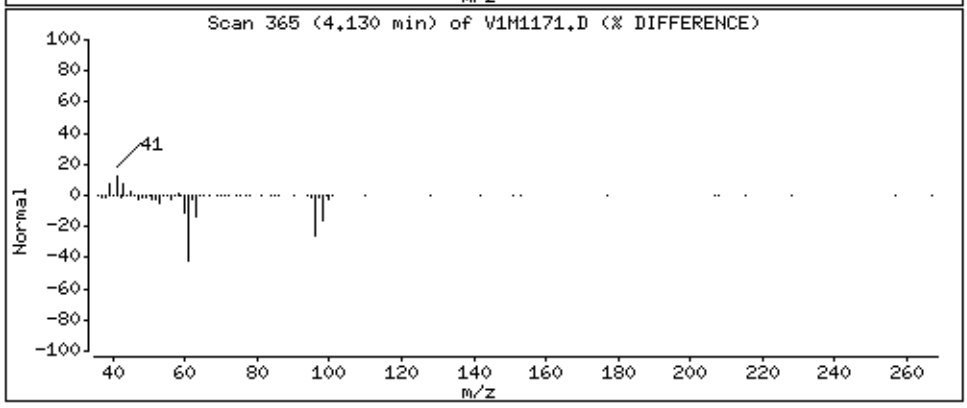












1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-MW-23S

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0834-06A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1172.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/13/2011

% Moisture: not dec. Date Analyzed: 05/16/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	2.5	J
67-64-1	Acetone	5.0	U
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	3.9	J
75-34-3	1,1-Dichloroethane	1.6	J
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	83	
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	3.8	J
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	46	
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-MW-23S

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0834-06A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1172.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/13/2011

% Moisture: not dec. Date Analyzed: 05/16/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
127-18-4	Tetrachloroethene	1500	E
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U

Data File: \\avogadro\organics\V1.I\110516.B\V1M1172.D
Report Date: 17-May-2011 11:36

Mitkem Laboratories

Method 8260 Water and Medium Soil

Data file : \\avogadro\organics\V1.I\110516.B\V1M1172.D
Lab Smp Id: K0834-06A Client Smp ID: SL-MW-23S
Inj Date : 16-MAY-2011 14:26
Operator : SZ SRC: LIMS Inst ID: V1.i
Smp Info : 5ML,K0834-06A,,59186
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\V1.I\110516.B\v18260Gadd.m
Meth Date : 17-May-2011 11:20 vbrizard Quant Type: ISTD
Cal Date : 05-MAY-2011 12:19 Cal File: V1M1016.D
Als bottle: 39
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

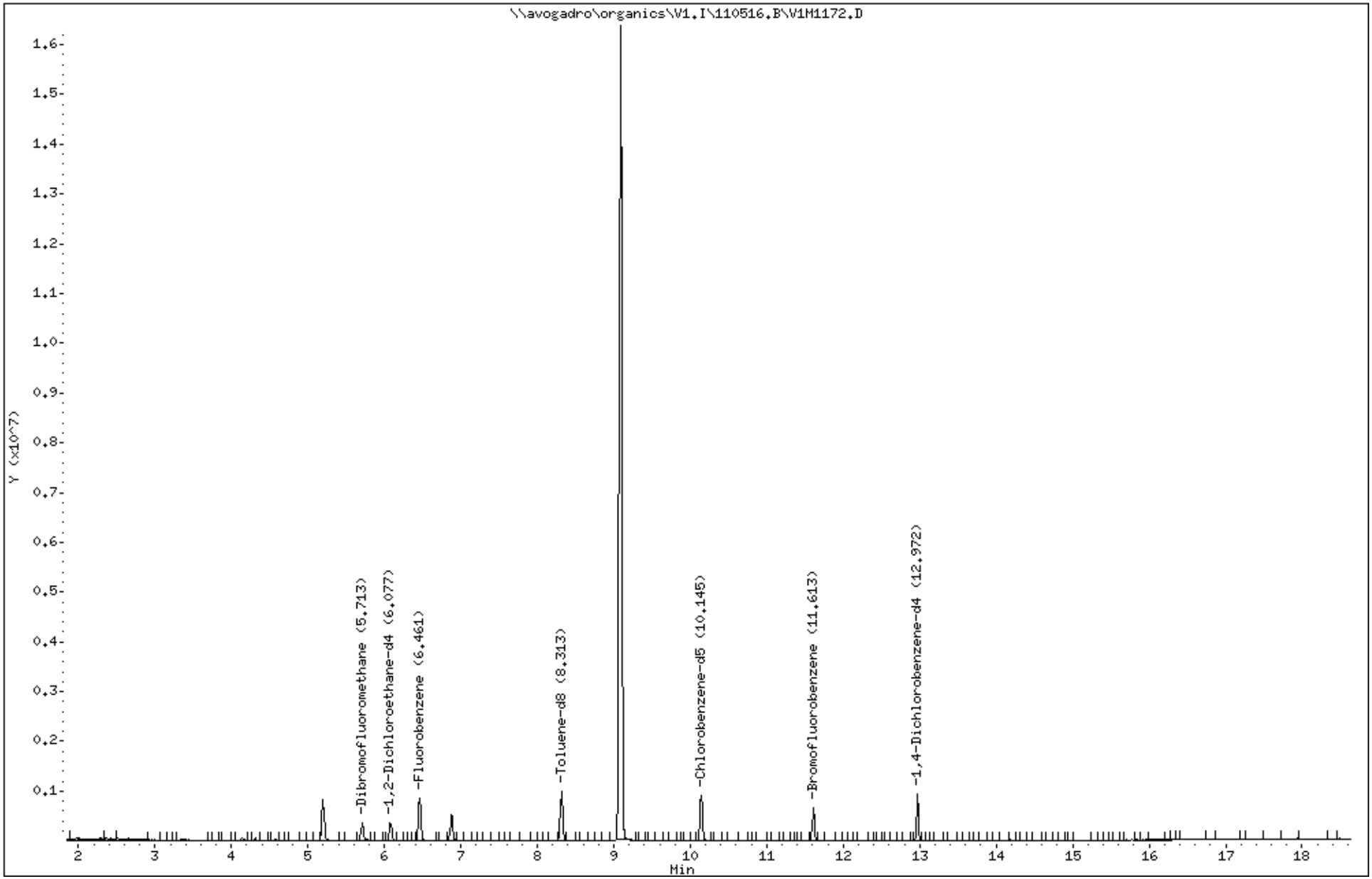
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	10 1,1-Dichloroethene	96	3.368	3.348	(0.521)	10497	2.48162	2(aQ)
	22 Methyl tert-butyl ether	73	4.146	4.125	(0.642)	39494	3.90936	4(a)
	23 1,1-Dichloroethane	63	4.580	4.569	(0.709)	14600	1.61672	2(a)
	28 cis-1,2-Dichloroethene	96	5.200	5.190	(0.805)	384303	83.1387	83
$	36 Dibromofluoromethane	113	5.712	5.701	(0.884)	261396	53.6025	54
	37 1,1,1-Trichloroethane	97	5.742	5.731	(0.889)	17140	3.80539	4(a)
$	42 1,2-Dichloroethane-d4	102	6.087	6.076	(0.942)	50775	50.4379	50
*	46 Fluorobenzene	96	6.461	6.450	(1.000)	826139	50.0000	
	47 Trichloroethene	130	6.884	6.864	(1.066)	207232	45.5053	46
$	58 Toluene-d8	98	8.313	8.302	(0.819)	728536	48.9575	49
	63 Tetrachloroethene	164	9.091	9.070	(0.896)	4991106	1518.07	1500(A)
*	68 Chlorobenzene-d5	117	10.145	10.134	(1.000)	617215	50.0000	
$	79 Bromofluorobenzene	95	11.612	11.591	(1.145)	285094	46.4317	46
*	92 1,4-Dichlorobenzene-d4	152	12.971	12.961	(1.000)	253159	50.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\avogadro\organics\V1.I\110516.B\V1M1172.D
Date : 16-MAY-2011 14:26
Client ID: SL-MW-23S
Instrument: V1.i
Sample Info: 5ML,K0834-06A,,59186
Purge Volume: 5.0
Operator: SZ SRC: LIMS
Column phase: DB-624
Column diameter: 0.25



Data File: \\avogadro\organics\V1.I\110516.B\V1M1172.D

Date : 16-MAY-2011 14:26

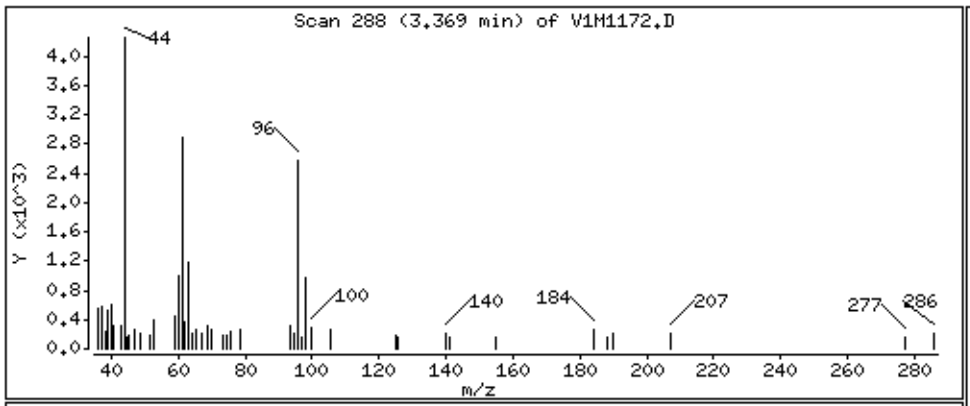
Client ID: SL-MW-23S | Instrument: V1.i

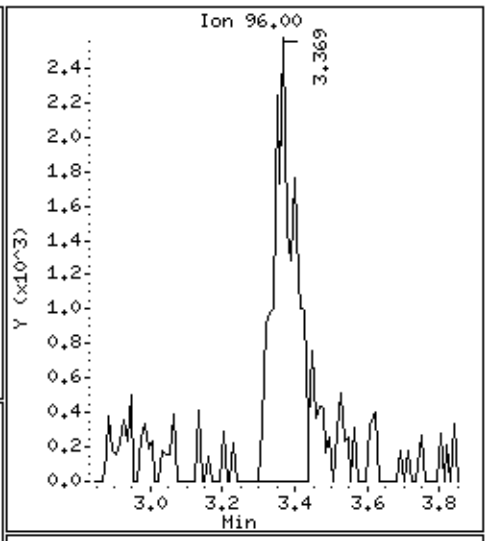
Sample Info: 5ML,K0834-06A,,59186

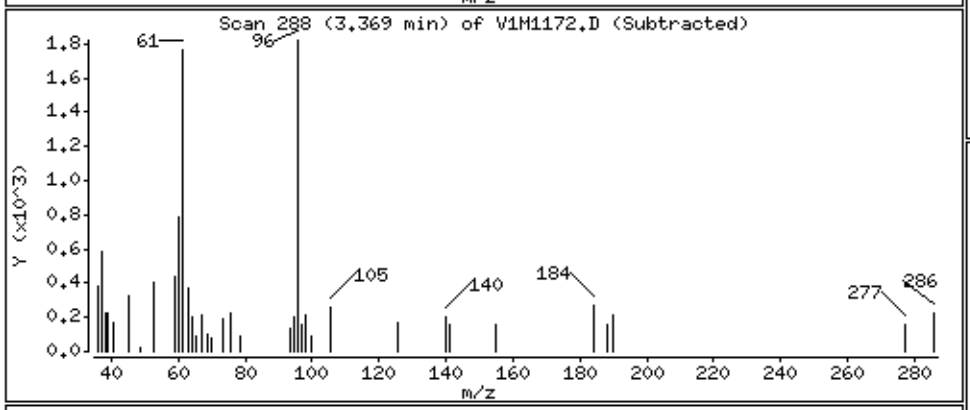
Purge Volume: 5.0 | Operator: SZ SRC: LIMS

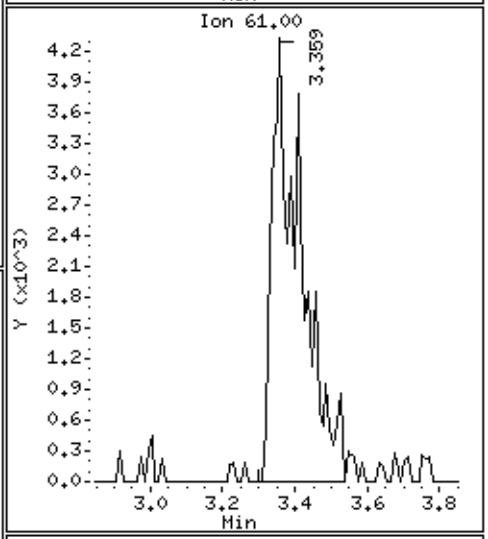
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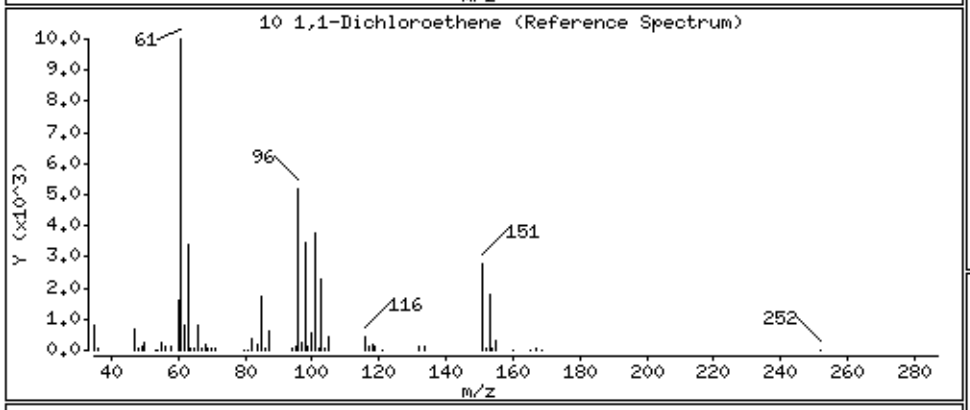
10 1,1-Dichloroethene | Concentration: 2 ug/L

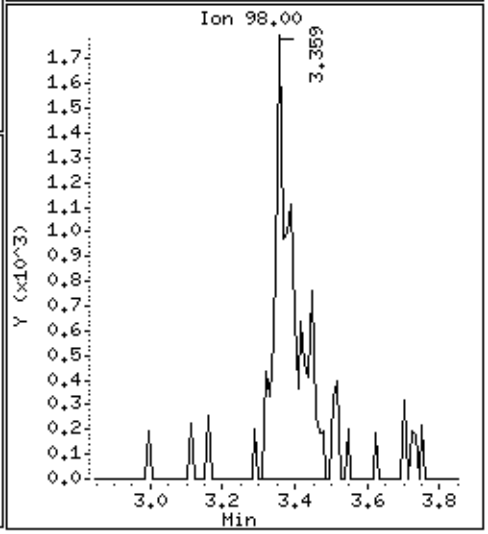


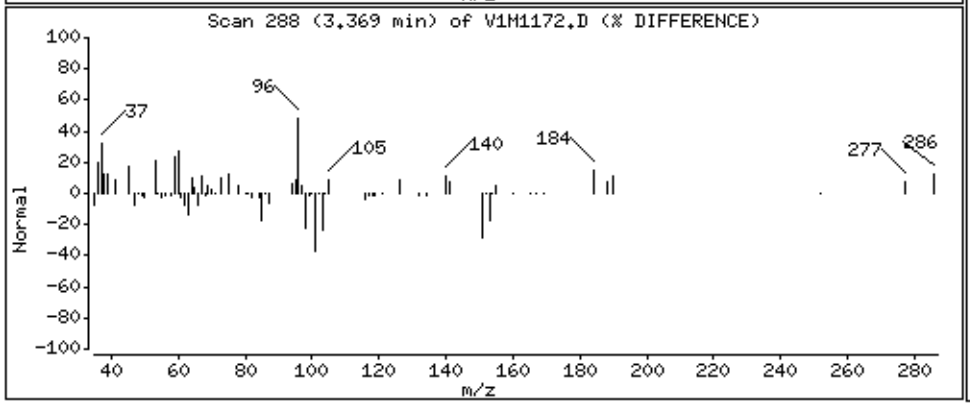












Data File: \\avogadro\organics\V1.I\110516.B\V1M1172.D

Date : 16-MAY-2011 14:26

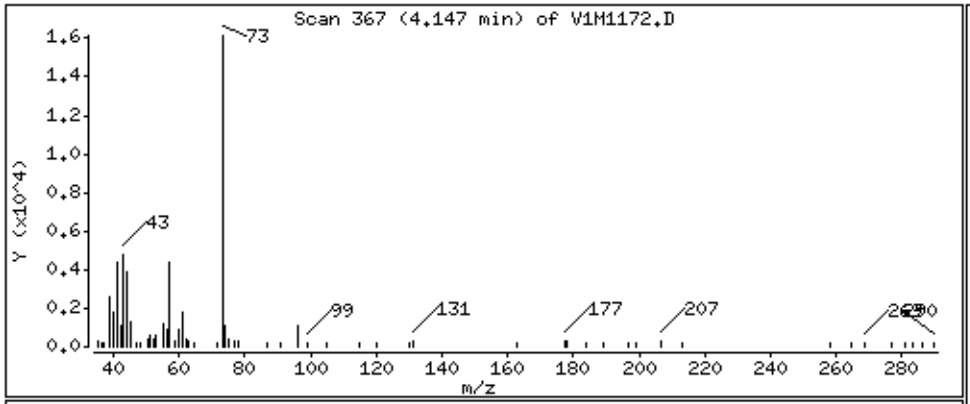
Client ID: SL-MW-23S Instrument: V1.i

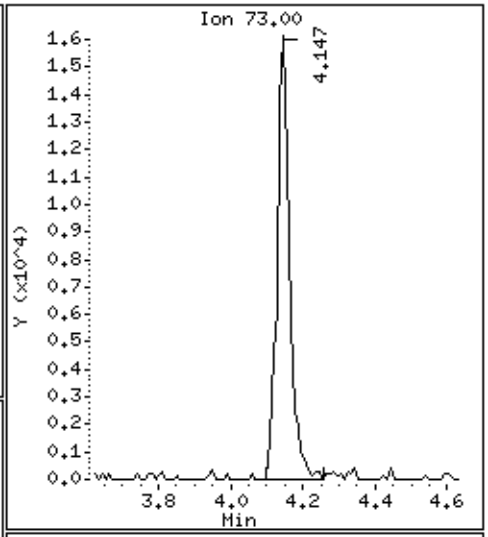
Sample Info: 5ML,K0834-06A,,59186

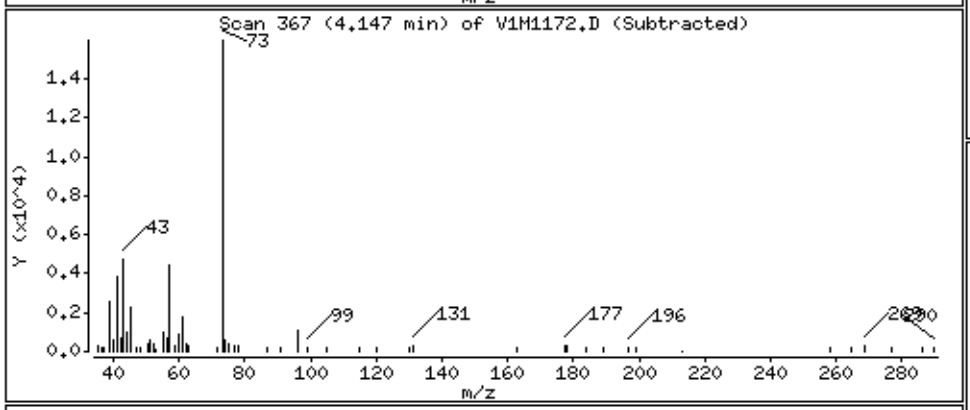
Purge Volume: 5.0 Operator: SZ SRC: LIMS

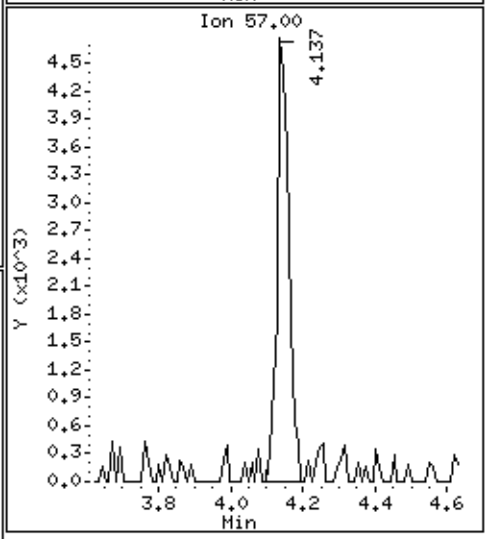
Column phase: DB-624 Column diameter: 0.25

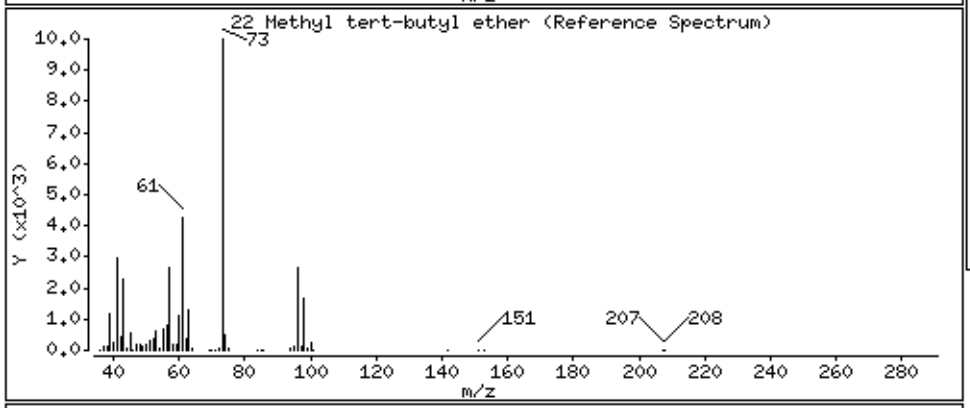
22 Methyl tert-butyl ether Concentration: 4 ug/L

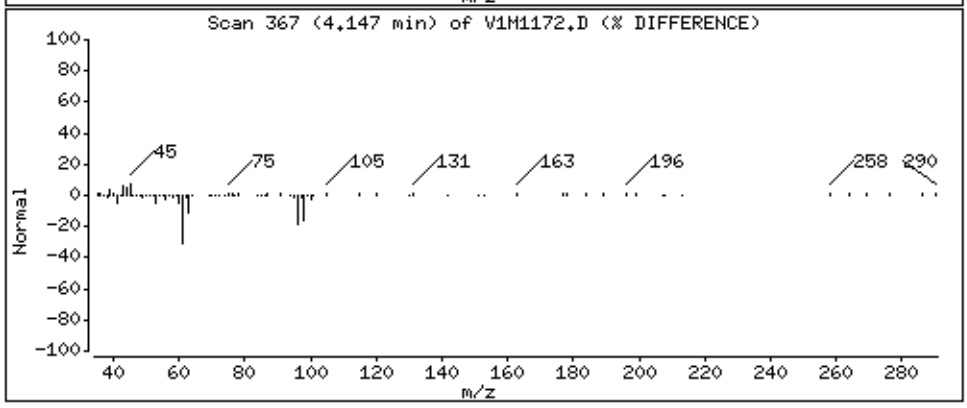












Data File: \\avogadro\organics\V1.I\110516.B\V1M1172.D

Date : 16-MAY-2011 14:26

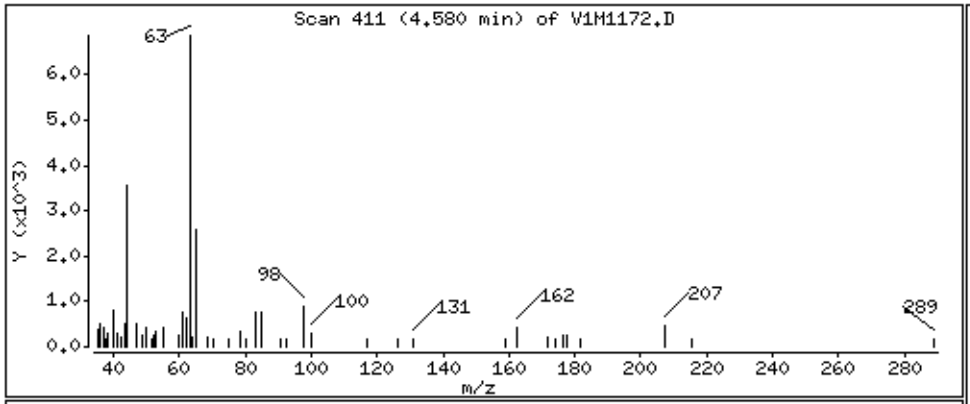
Client ID: SL-MW-23S Instrument: V1.i

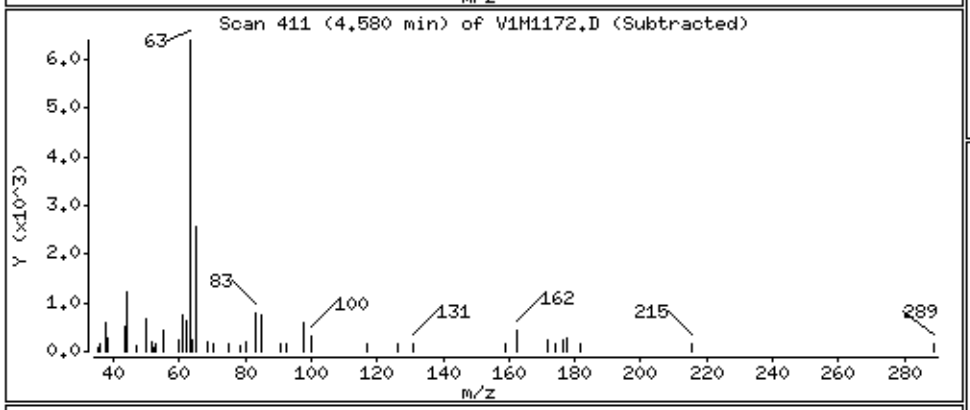
Sample Info: 5ML,K0834-06A,,59186

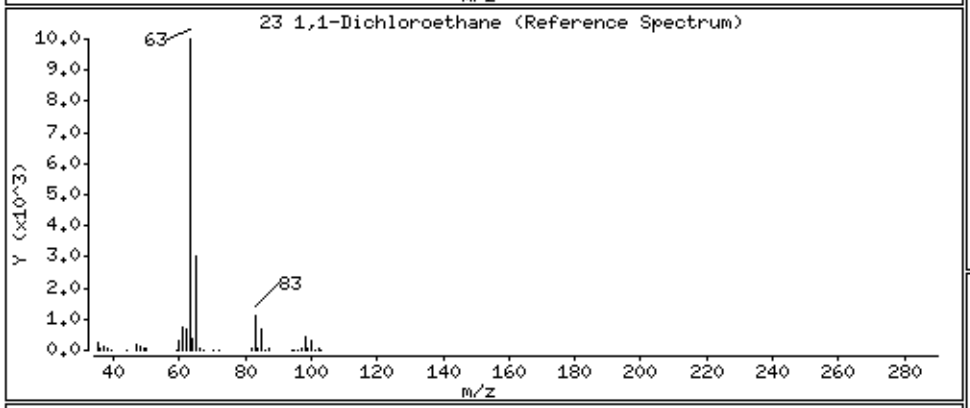
Purge Volume: 5.0 Operator: SZ SRC: LIMS

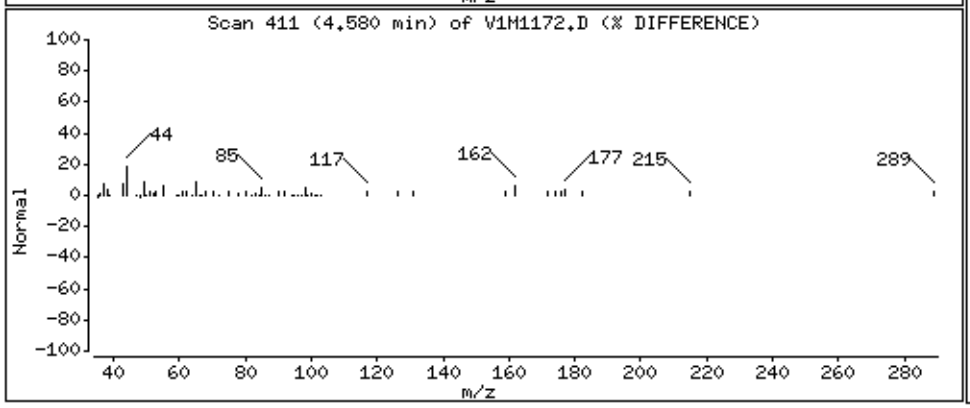
Column phase: DB-624 Column diameter: 0.25

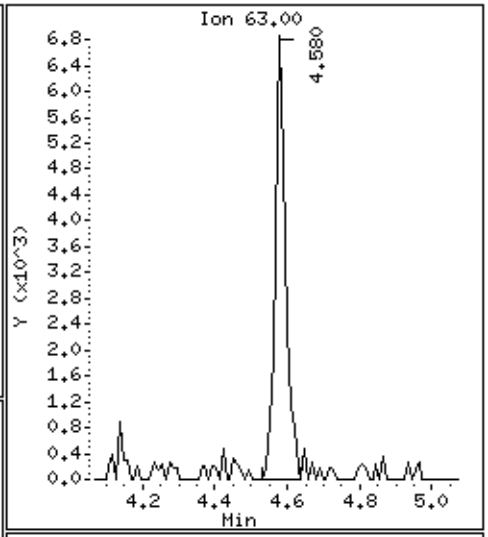
23 1,1-Dichloroethane Concentration: 2 ug/L

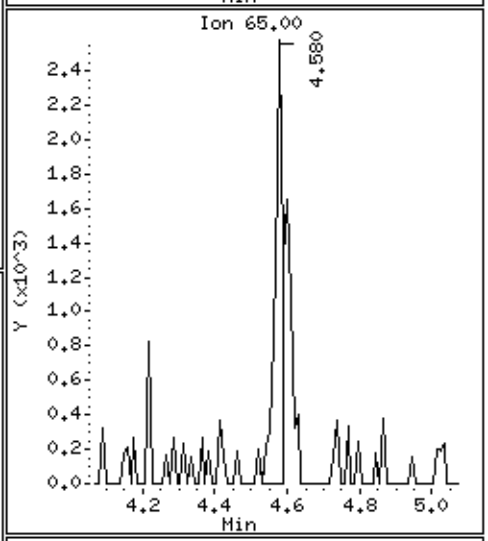


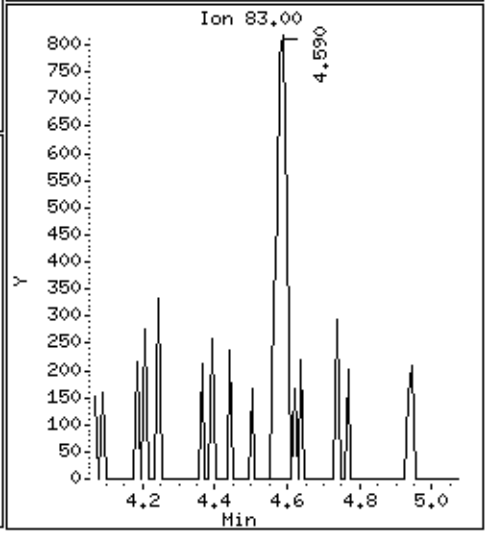












Data File: \\avogadro\organics\V1.I\110516.B\V1M1172.D

Date : 16-MAY-2011 14:26

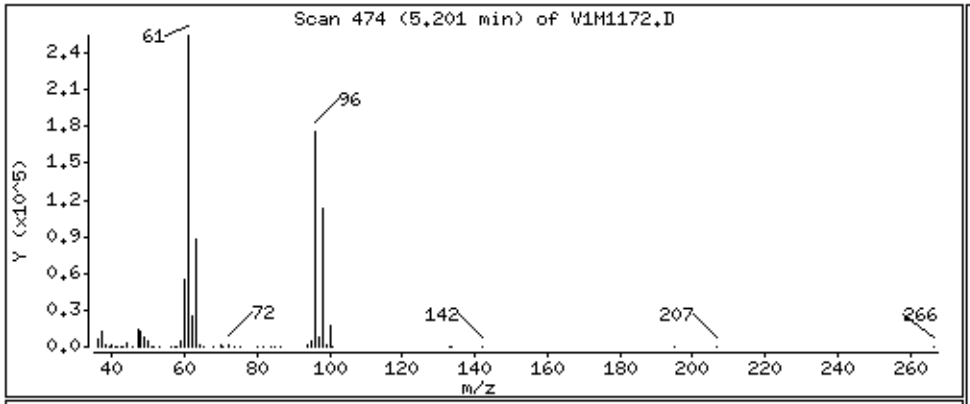
Client ID: SL-MW-23S Instrument: V1.i

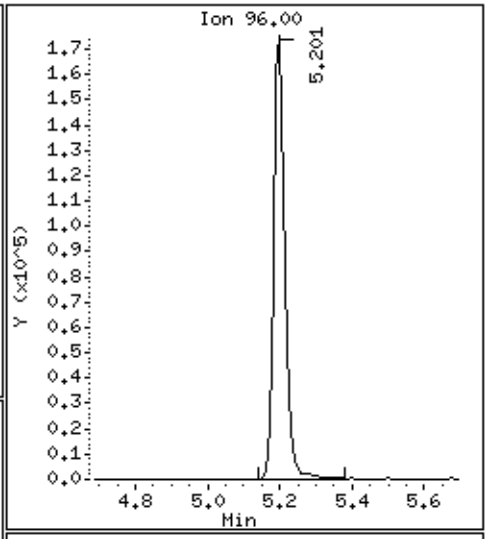
Sample Info: 5ML,K0834-06A,,59186

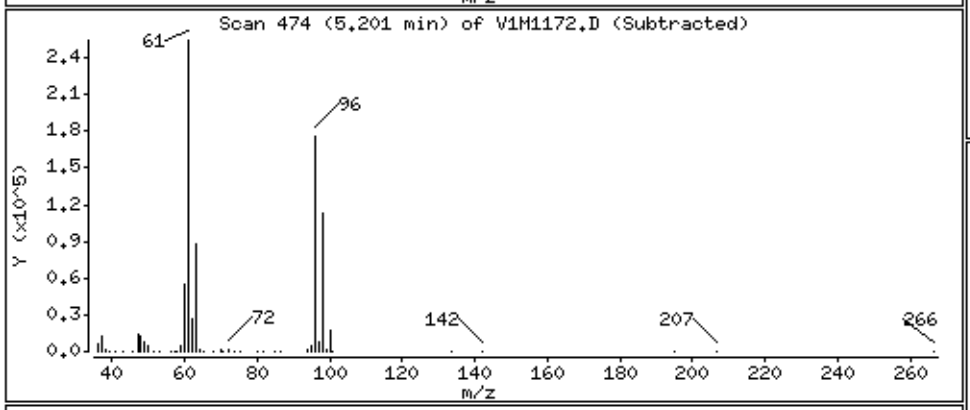
Purge Volume: 5.0 Operator: SZ SRC: LIMS

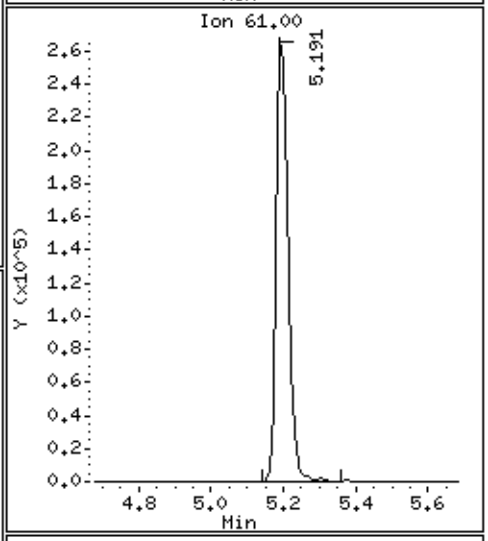
Column phase: DB-624 Column diameter: 0.25

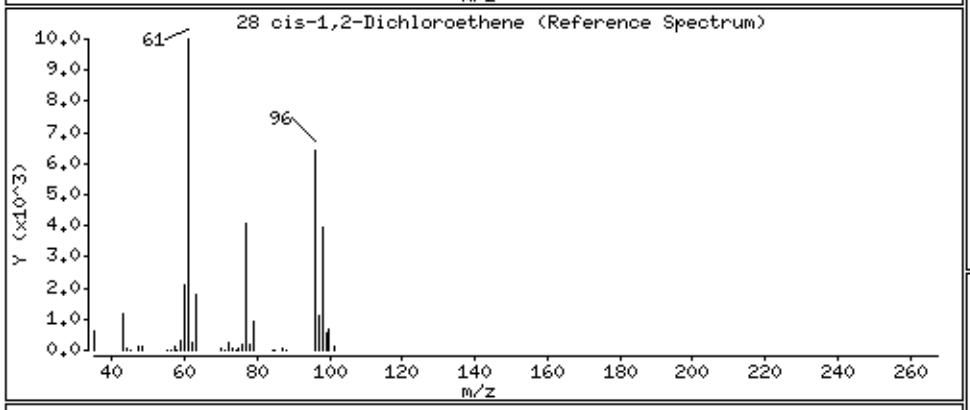
28 cis-1,2-Dichloroethene Concentration: 83 ug/L

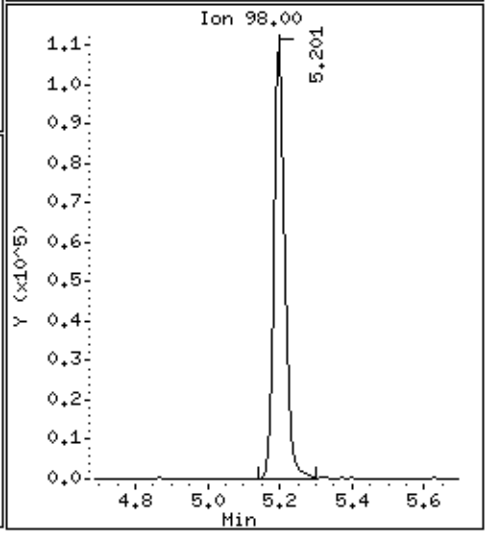


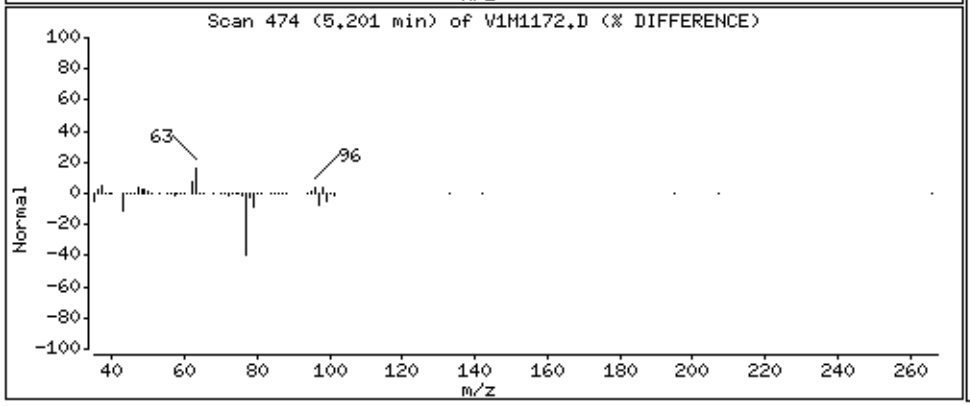












Data File: \\avogadro\organics\V1.I\110516.B\V1M1172.D

Date : 16-MAY-2011 14:26

Client ID: SL-MW-23S

Instrument: V1.i

Sample Info: 5ML,K0834-06A,,59186

Purge Volume: 5.0

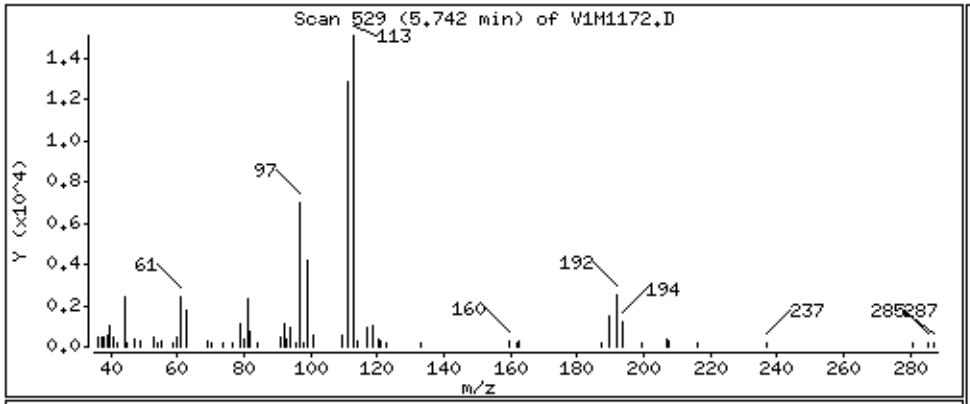
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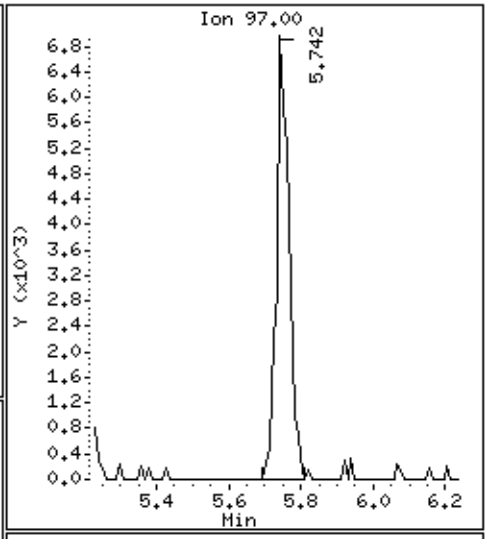
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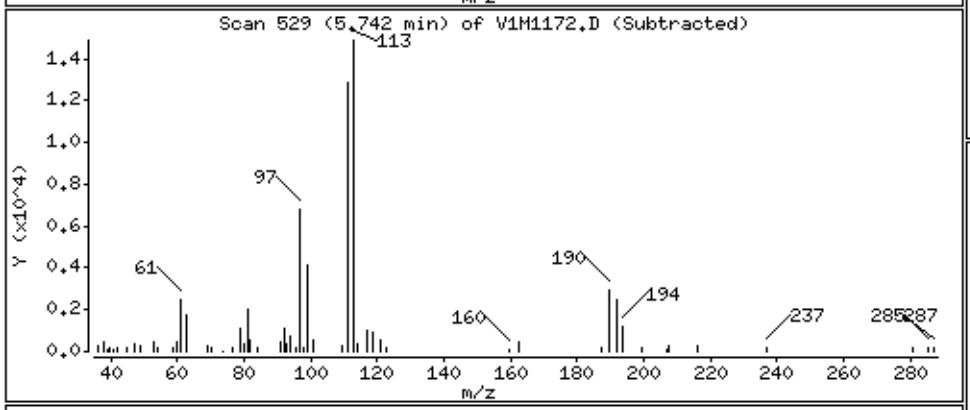
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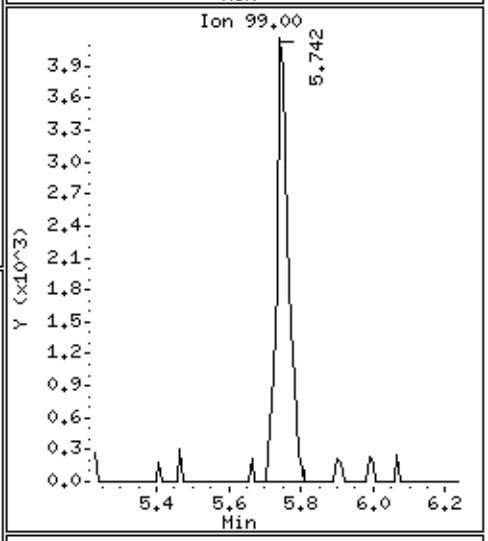
37 1,1,1-Trichloroethane

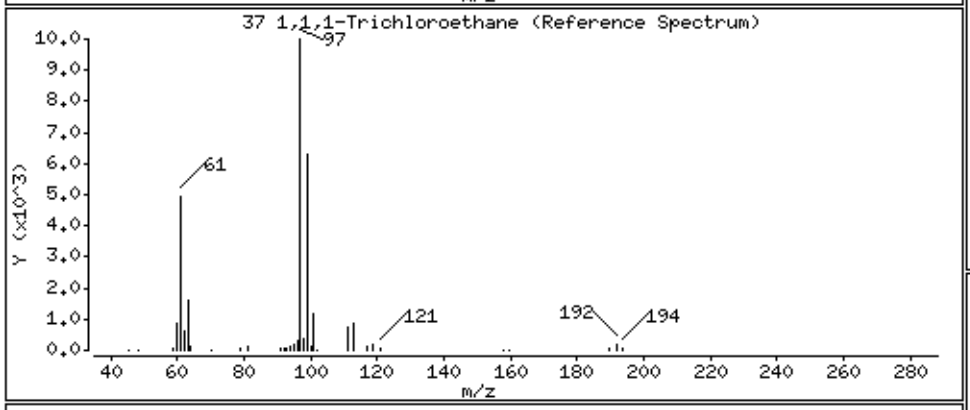
Concentration: 4 ug/L

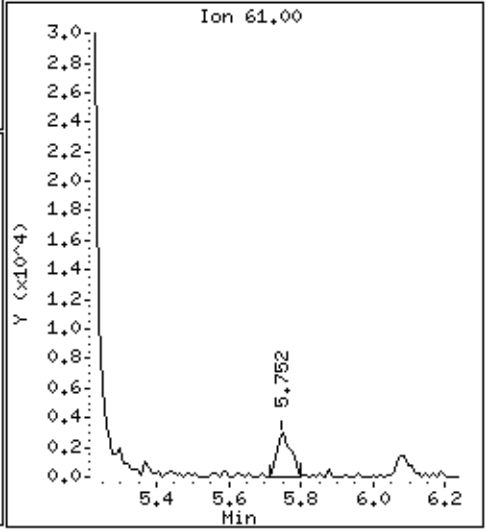


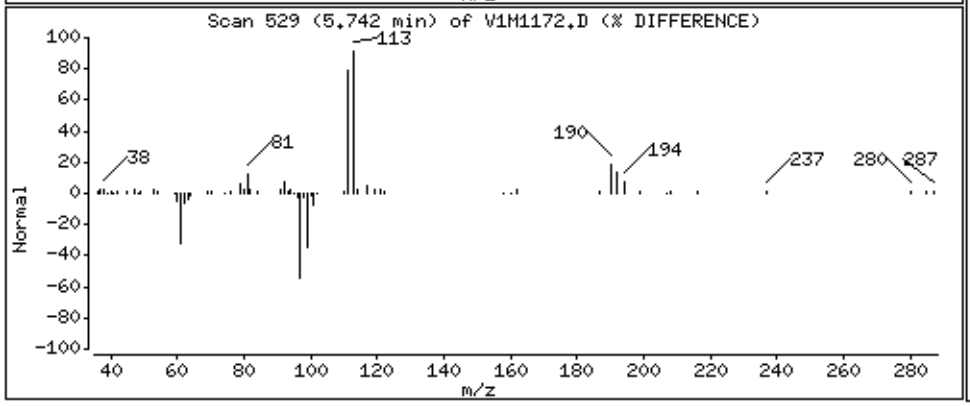












Data File: \\avogadro\organics\V1.I\110516.B\V1M1172.D

Date : 16-MAY-2011 14:26

Client ID: SL-MW-23S

Instrument: V1.i

Sample Info: 5ML,K0834-06A,,59186

Purge Volume: 5.0

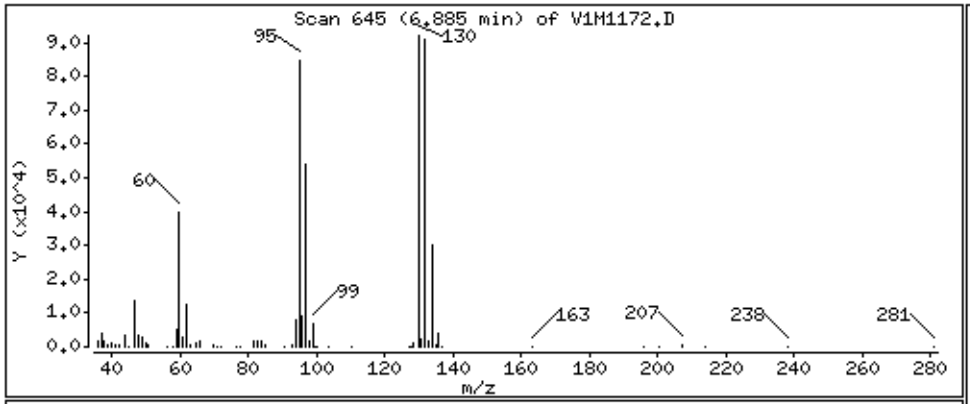
Operator: SZ SRC: LIMS

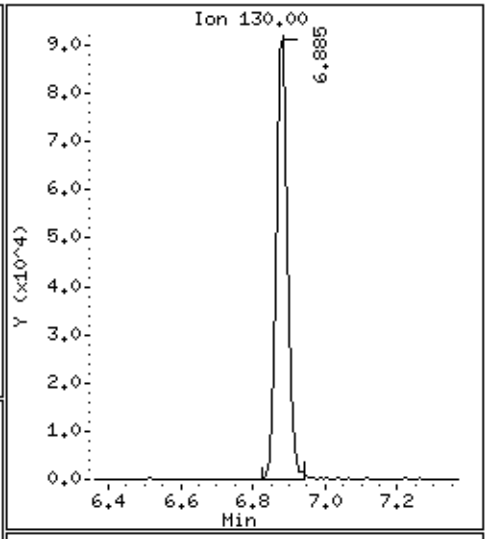
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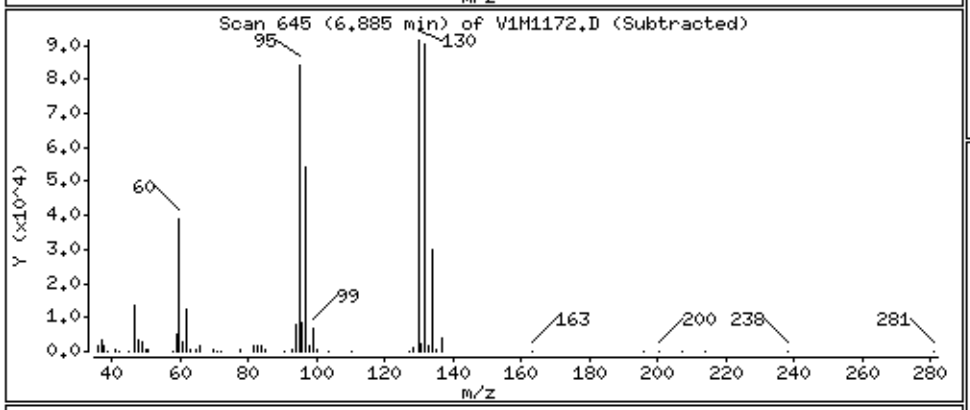
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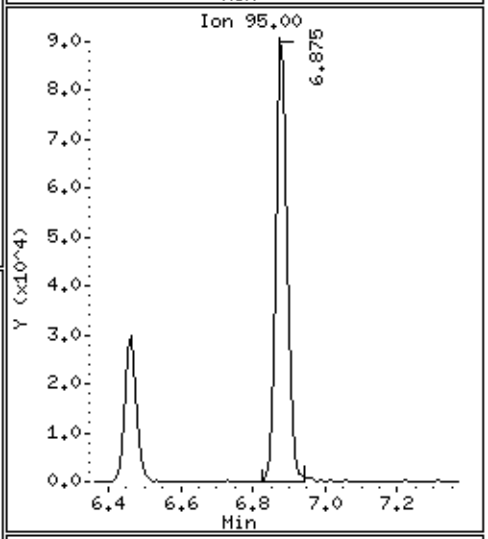
47 Trichloroethene

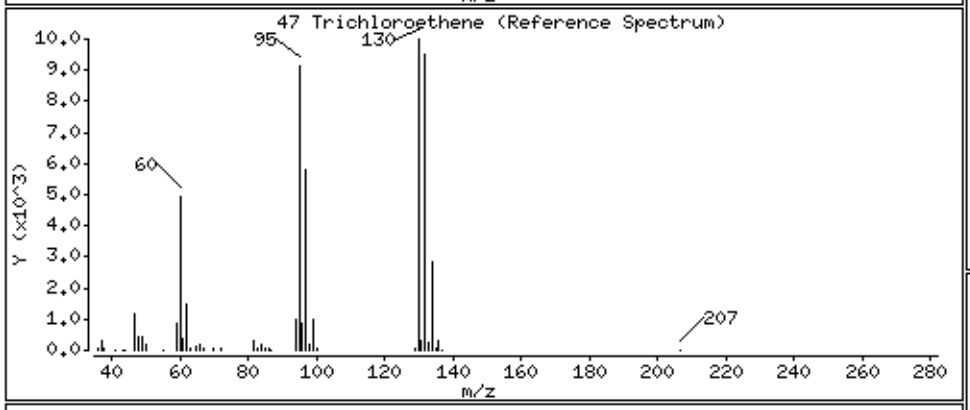
Concentration: 46 ug/L

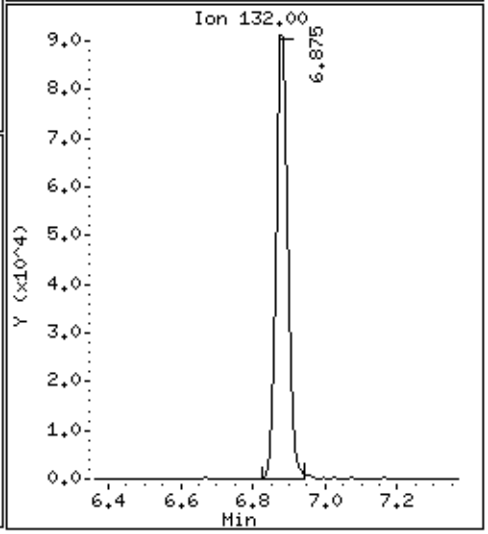


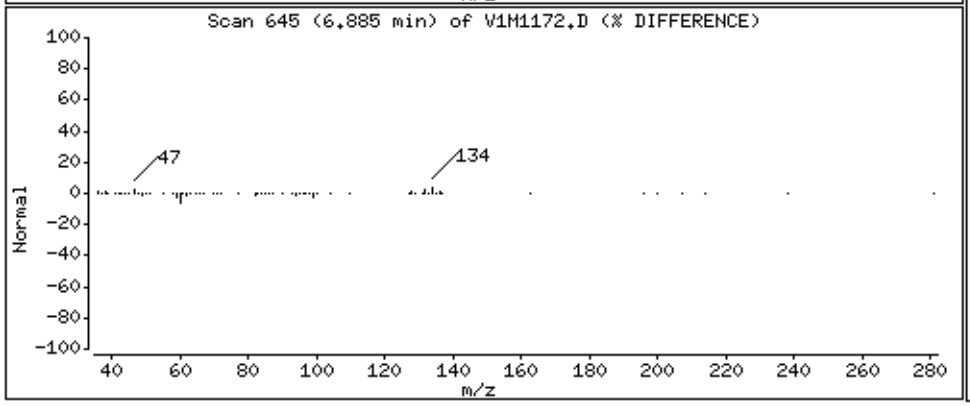












Data File: \\avogadro\organics\V1.I\110516.B\V1M1172.D

Date : 16-MAY-2011 14:26

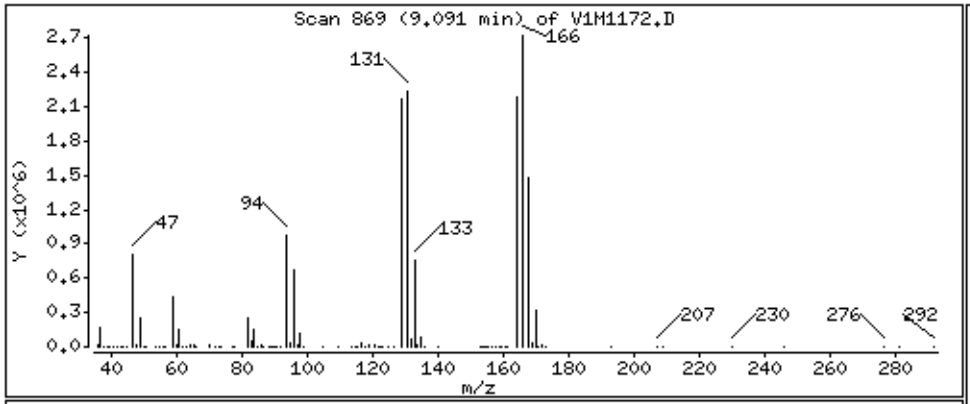
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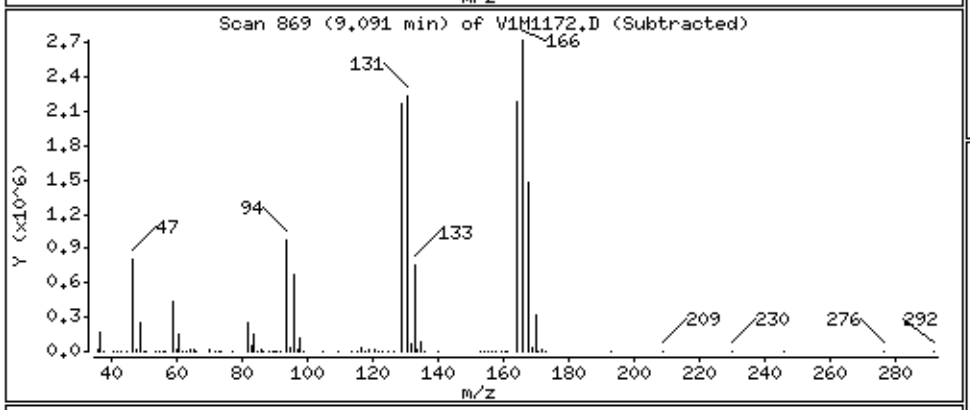
Sample Info: 5ML,K0834-06A,,59186

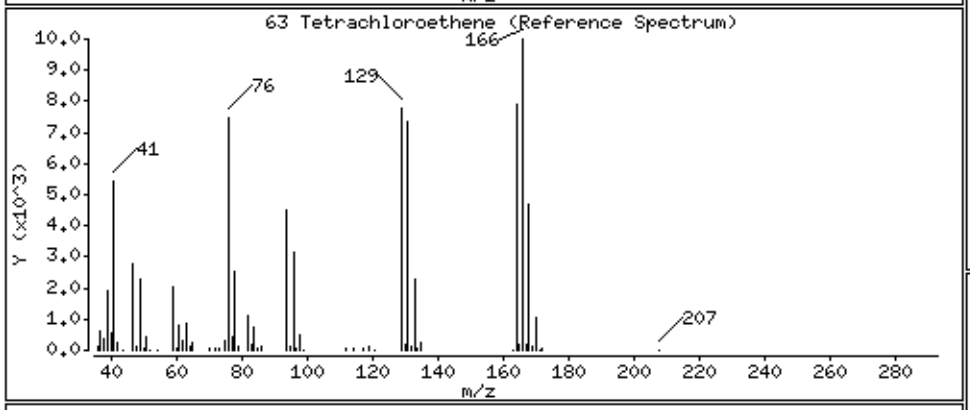
Purge Volume: 5.0 Operator: SZ SRC: LIMS

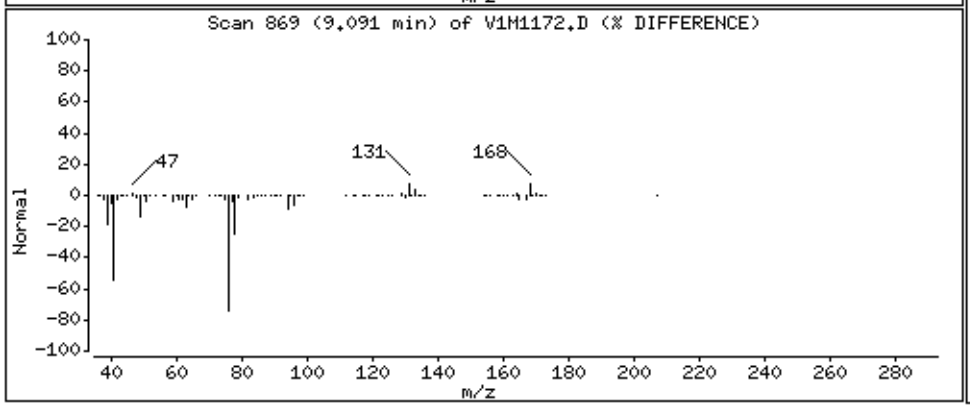
Column phase: DB-624 Column diameter: 0.25

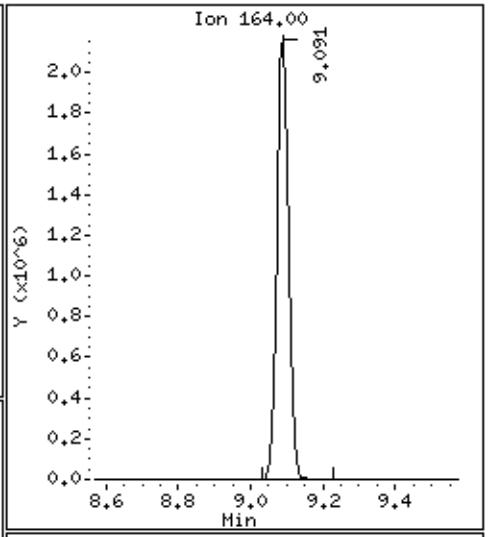
63 Tetrachloroethene Concentration: 1500 ug/L

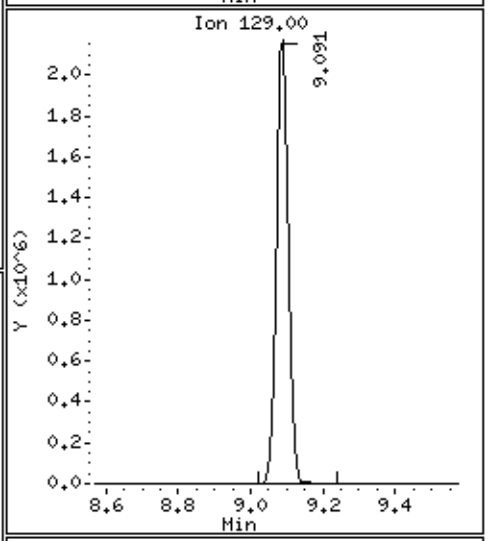


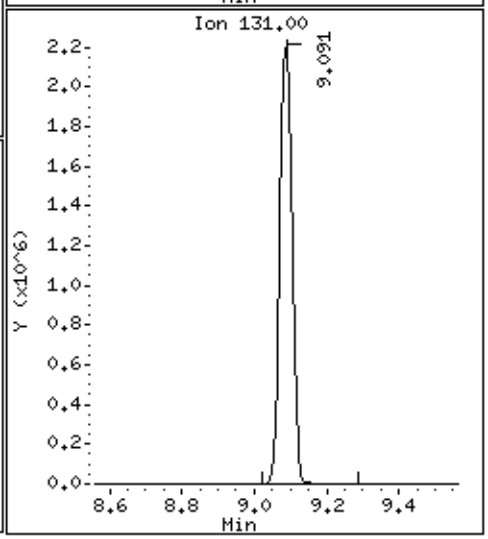












1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-MW-23SDL

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0834-06ADL

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1197.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/13/2011

% Moisture: not dec. Date Analyzed: 05/17/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 16.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
75-71-8	Dichlorodifluoromethane	80	U
74-87-3	Chloromethane	80	U
75-01-4	Vinyl chloride	80	U
74-83-9	Bromomethane	80	U
75-00-3	Chloroethane	80	U
75-69-4	Trichlorofluoromethane	80	U
75-35-4	1,1-Dichloroethene	80	U
67-64-1	Acetone	80	U
74-88-4	Iodomethane	80	U
75-15-0	Carbon disulfide	80	U
75-09-2	Methylene chloride	80	U
156-60-5	trans-1,2-Dichloroethene	80	U
1634-04-4	Methyl tert-butyl ether	80	U
75-34-3	1,1-Dichloroethane	80	U
108-05-4	Vinyl acetate	80	U
78-93-3	2-Butanone	80	U
156-59-2	cis-1,2-Dichloroethene	78	DJ
594-20-7	2,2-Dichloropropane	80	U
74-97-5	Bromochloromethane	80	U
67-66-3	Chloroform	80	U
71-55-6	1,1,1-Trichloroethane	80	U
563-58-6	1,1-Dichloropropene	80	U
56-23-5	Carbon tetrachloride	80	U
107-06-2	1,2-Dichloroethane	80	U
71-43-2	Benzene	80	U
79-01-6	Trichloroethene	40	DJ
78-87-5	1,2-Dichloropropane	80	U
74-95-3	Dibromomethane	80	U
75-27-4	Bromodichloromethane	80	U
10061-01-5	cis-1,3-Dichloropropene	80	U
108-10-1	4-Methyl-2-pentanone	80	U
108-88-3	Toluene	80	U
10061-02-6	trans-1,3-Dichloropropene	80	U
79-00-5	1,1,2-Trichloroethane	80	U
142-28-9	1,3-Dichloropropane	80	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-MW-23SDL

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0834-06ADL

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1197.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/13/2011

% Moisture: not dec. Date Analyzed: 05/17/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 16.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
127-18-4	Tetrachloroethene	1500	D
591-78-6	2-Hexanone	80	U
124-48-1	Dibromochloromethane	80	U
106-93-4	1,2-Dibromoethane	80	U
108-90-7	Chlorobenzene	80	U
630-20-6	1,1,1,2-Tetrachloroethane	80	U
100-41-4	Ethylbenzene	80	U
1330-20-7	m,p-Xylene	80	U
95-47-6	o-Xylene	80	U
1330-20-7	Xylene (Total)	80	U
100-42-5	Styrene	80	U
75-25-2	Bromoform	80	U
98-82-8	Isopropylbenzene	80	U
79-34-5	1,1,2,2-Tetrachloroethane	80	U
108-86-1	Bromobenzene	80	U
96-18-4	1,2,3-Trichloropropane	80	U
103-65-1	n-Propylbenzene	80	U
95-49-8	2-Chlorotoluene	80	U
108-67-8	1,3,5-Trimethylbenzene	80	U
106-43-4	4-Chlorotoluene	80	U
98-06-6	tert-Butylbenzene	80	U
95-63-6	1,2,4-Trimethylbenzene	80	U
135-98-8	sec-Butylbenzene	80	U
99-87-6	4-Isopropyltoluene	80	U
541-73-1	1,3-Dichlorobenzene	80	U
106-46-7	1,4-Dichlorobenzene	80	U
104-51-8	n-Butylbenzene	80	U
95-50-1	1,2-Dichlorobenzene	80	U
96-12-8	1,2-Dibromo-3-chloropropane	80	U
120-82-1	1,2,4-Trichlorobenzene	80	U
87-68-3	Hexachlorobutadiene	80	U
87-61-6	1,2,3-Trichlorobenzene	80	U
91-20-3	Naphthalene	80	U

Data File: \\Avogadro\Organics\V1.I\110517.B\V1M1197.D
Report Date: 18-May-2011 13:43

Mitkem Laboratories

Method 8260 Water and Medium Soil

Data file : \\Avogadro\Organics\V1.I\110517.B\V1M1197.D
Lab Smp Id: K0834-06ADL Client Smp ID: SL-MW-23SDL
Inj Date : 17-MAY-2011 11:17
Operator : SZ SRC: LIMS Inst ID: V1.i
Smp Info : 5ML,K0834-06ADL,,59208,16
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\V1.I\110517.B\v18260Gadd.m
Meth Date : 18-May-2011 13:41 amarquis Quant Type: ISTD
Cal Date : 05-MAY-2011 12:19 Cal File: V1M1016.D
Als bottle: 34
Dil Factor: 16.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	16.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

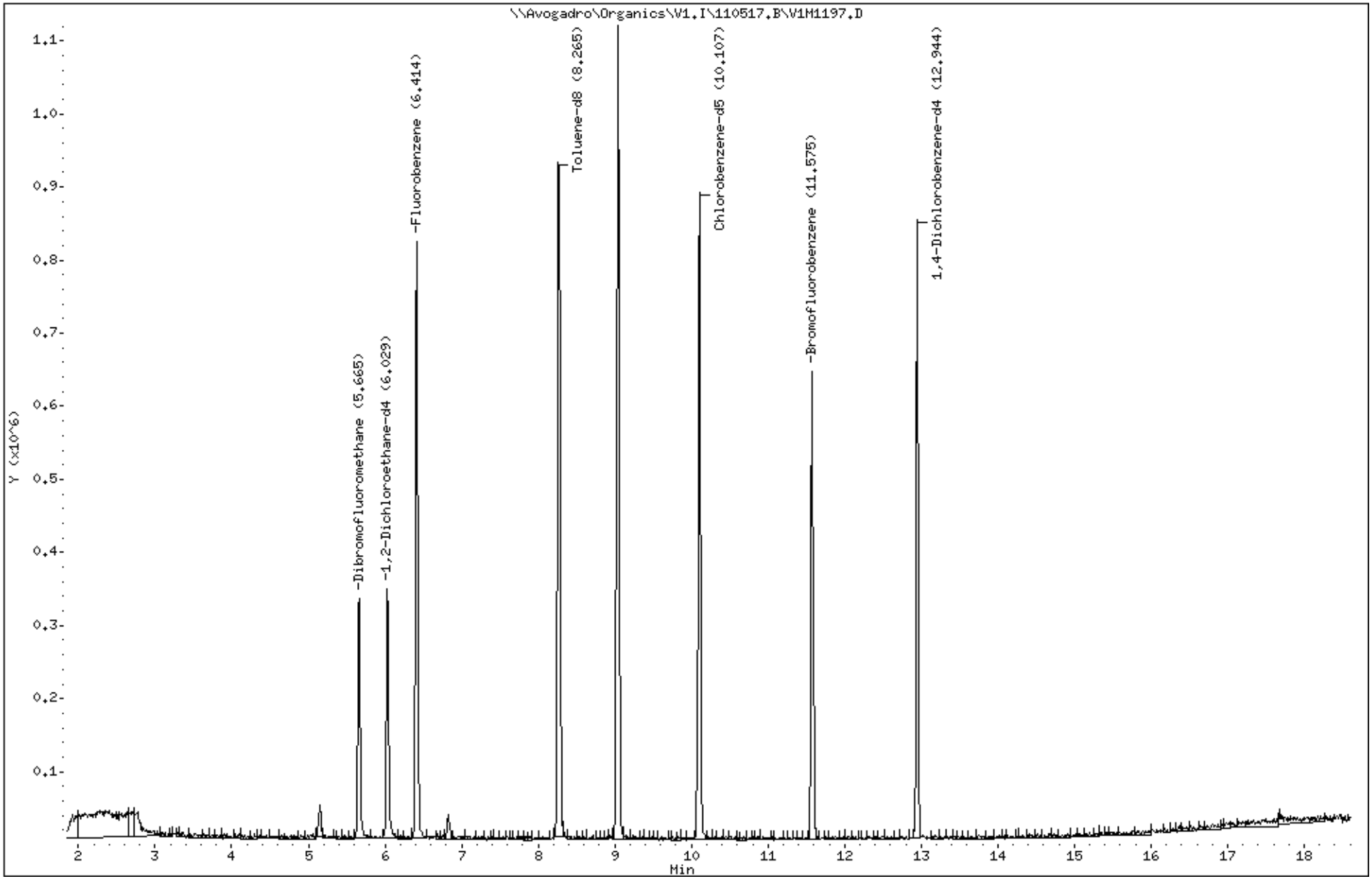
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	28 cis-1,2-Dichloroethene	96	5.152	5.144	(0.803)	22208	4.85814	78(a)
$	36 Dibromofluoromethane	113	5.665	5.656	(0.883)	240248	49.8170	50
$	42 1,2-Dichloroethane-d4	102	6.029	6.040	(0.940)	53739	53.9794	54
*	46 Fluorobenzene	96	6.413	6.415	(1.000)	816999	50.0000	
	47 Trichloroethene	130	6.837	6.828	(1.066)	11204	2.48777	40(a)
$	58 Toluene-d8	98	8.265	8.276	(0.818)	707119	49.2843	49
	63 Tetrachloroethene	164	9.043	9.045	(0.895)	293503	92.5880	1500
*	68 Chlorobenzene-d5	117	10.107	10.108	(1.000)	595099	50.0000	
$	79 Bromofluorobenzene	95	11.574	11.586	(1.145)	281765	47.5949	48
*	92 1,4-Dichlorobenzene-d4	152	12.953	12.945	(1.000)	249806	50.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\Avogadro\Organics\V1.I\110517.B\V1M1197.D
Date : 17-MAY-2011 11:17
Client ID: SL-MW-23SDL
Sample Info: 5ML,K0834-06ADL,,59208,16
Purge Volume: 5.0
Column phase: DB-624

Instrument: V1.i
Operator: SZ SRC: LIMS
Column diameter: 0.25



Data File: \\Avogadro\Organics\V1.I\110517.B\V1M1197.D

Date : 17-MAY-2011 11:17

Client ID: SL-MW-23SDL

Instrument: V1.i

Sample Info: 5ML,K0834-06ADL,,59208,16

Purge Volume: 5.0

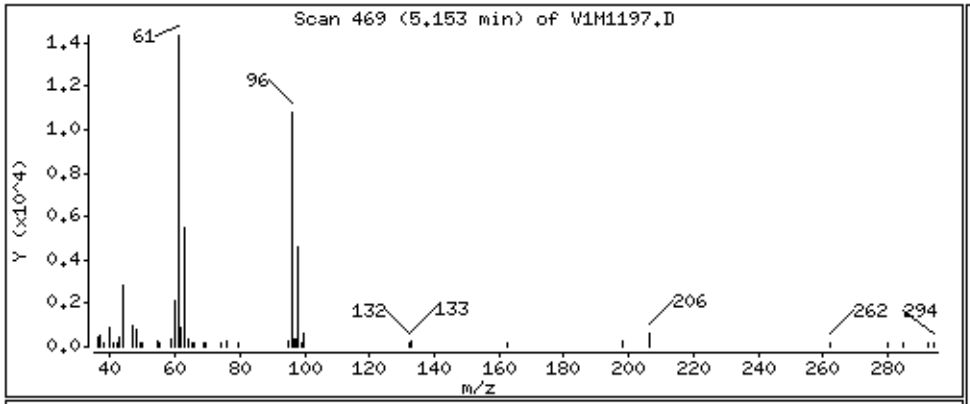
Operator: SZ SRC: LIMS

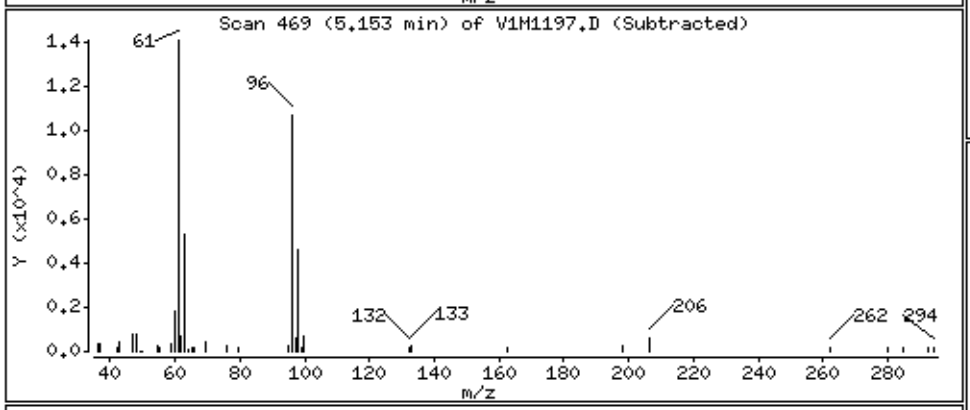
Column phase: DB-624

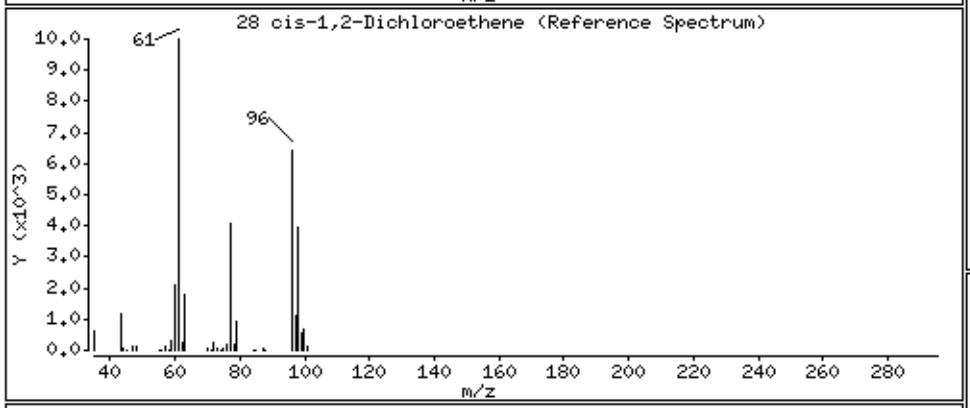
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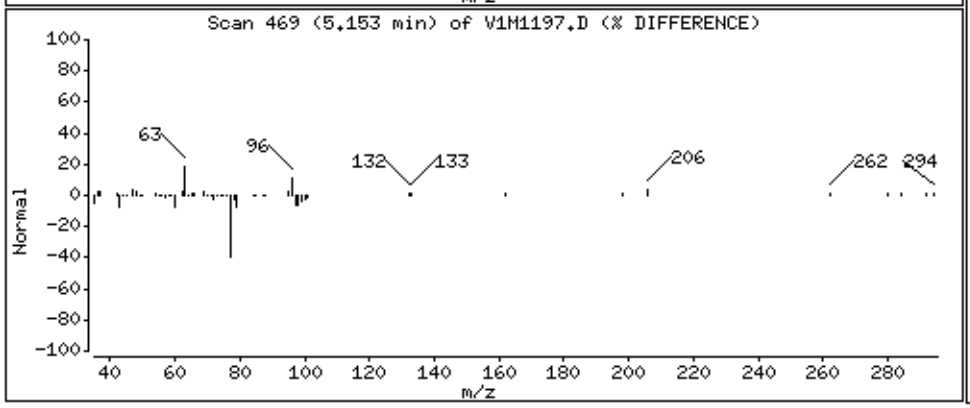
28 cis-1,2-Dichloroethene

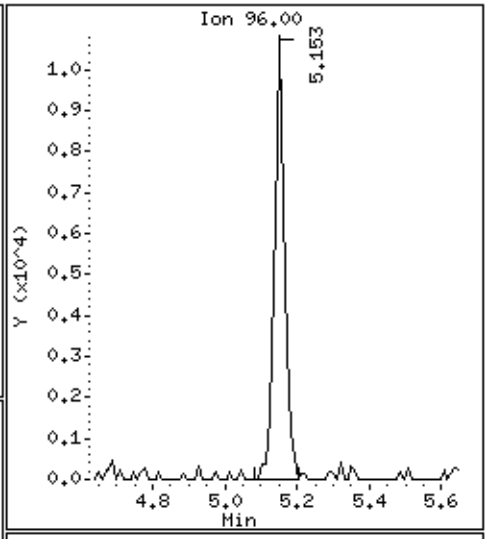
Concentration: 78 ug/L

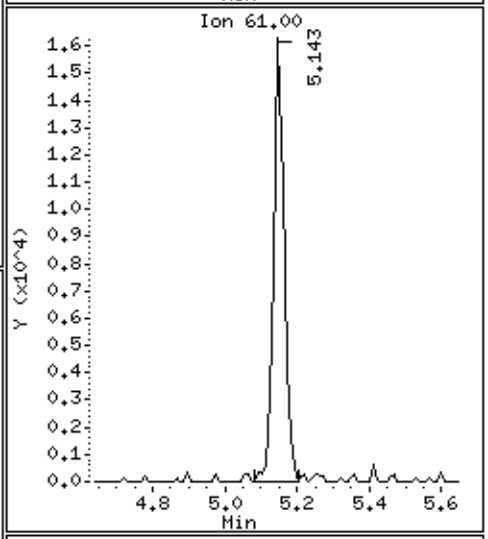


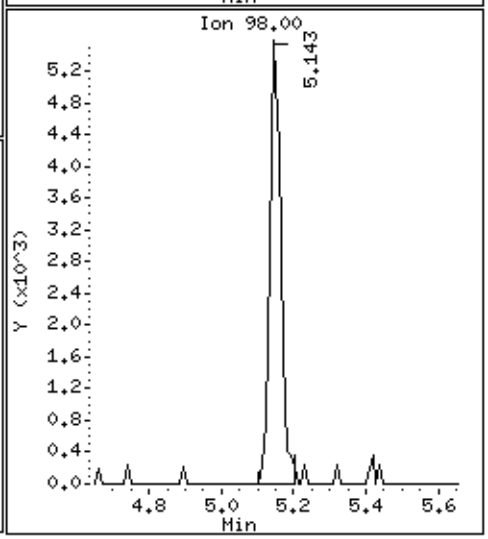












Data File: \\Avogadro\Organics\V1.I\110517.B\V1M1197.D

Date : 17-MAY-2011 11:17

Client ID: SL-MW-23SDL

Instrument: V1.i

Sample Info: 5ML,K0834-06ADL,,59208,16

Purge Volume: 5.0

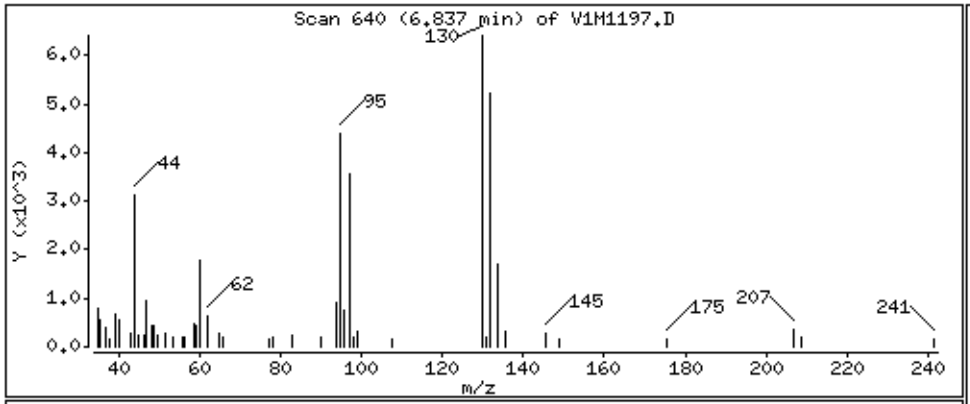
Operator: SZ SRC: LIMS

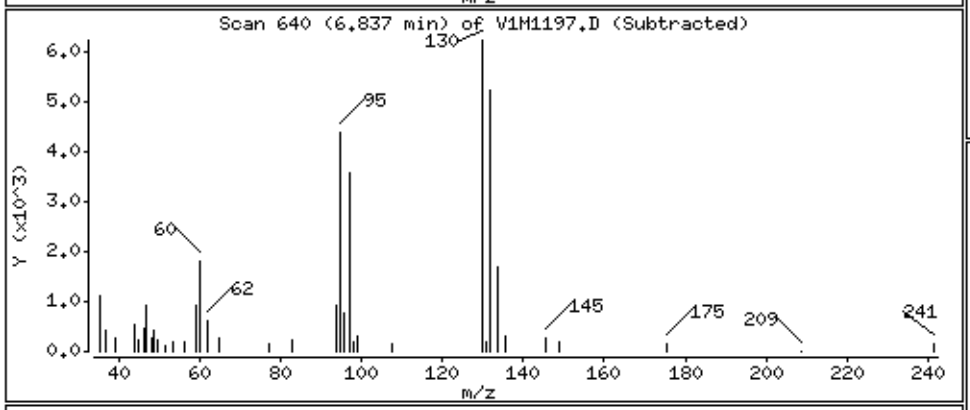
Column phase: DB-624

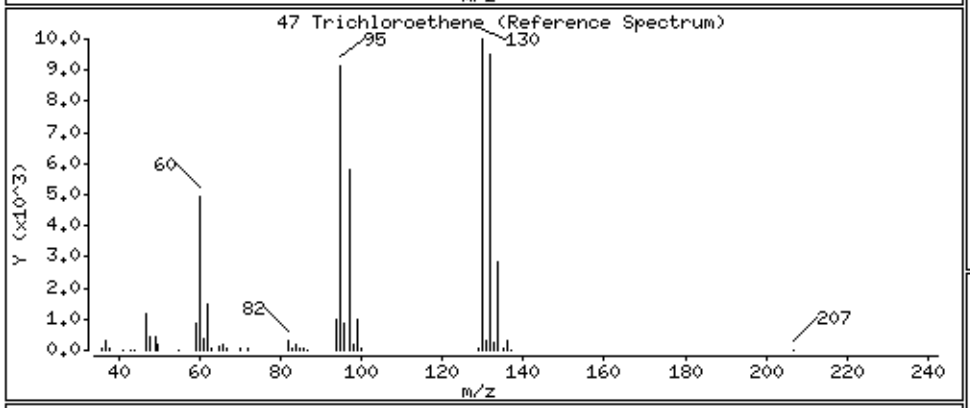
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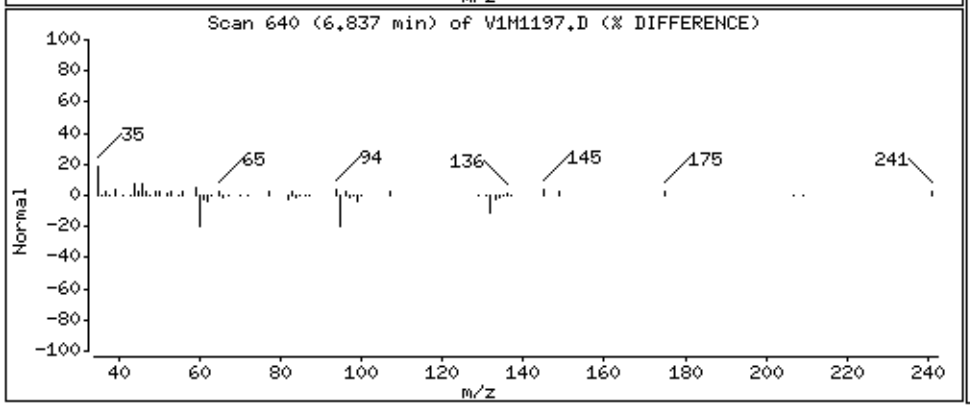
47 Trichloroethene

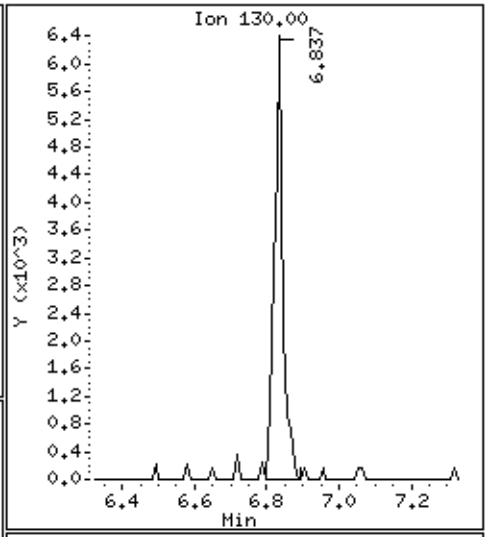
Concentration: 40 ug/L

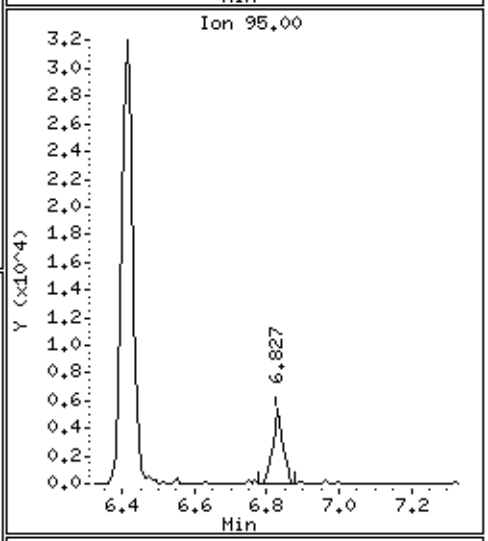


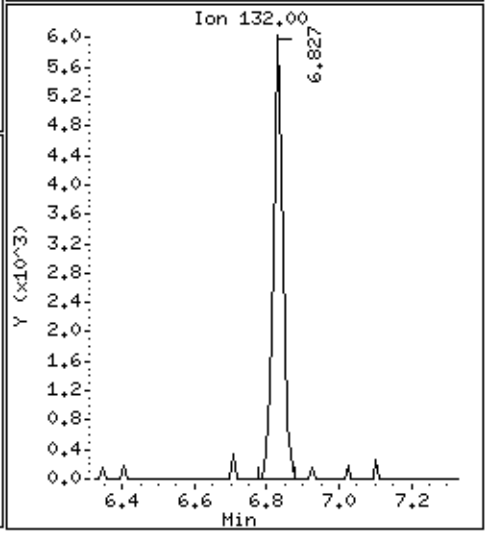












Data File: \\Avogadro\Organics\V1.I\110517.B\V1M1197.D

Date : 17-MAY-2011 11:17

Client ID: SL-MW-23SDL

Instrument: V1.i

Sample Info: 5ML,K0834-06ADL,,59208,16

Purge Volume: 5.0

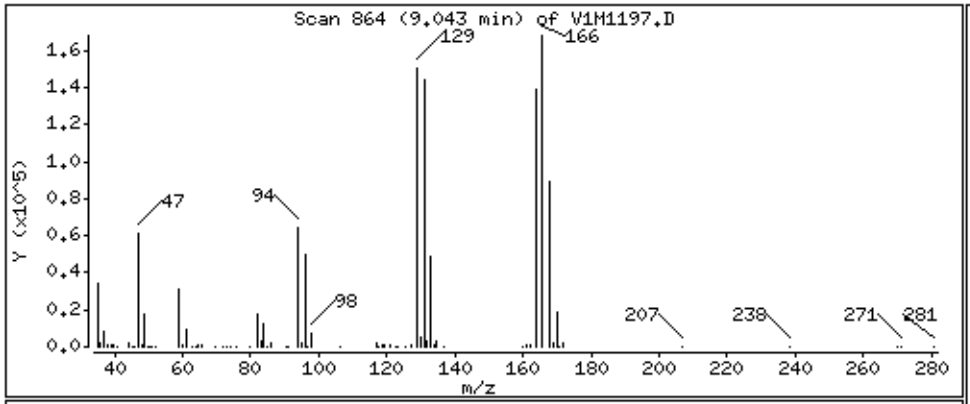
Operator: SZ SRC: LIMS

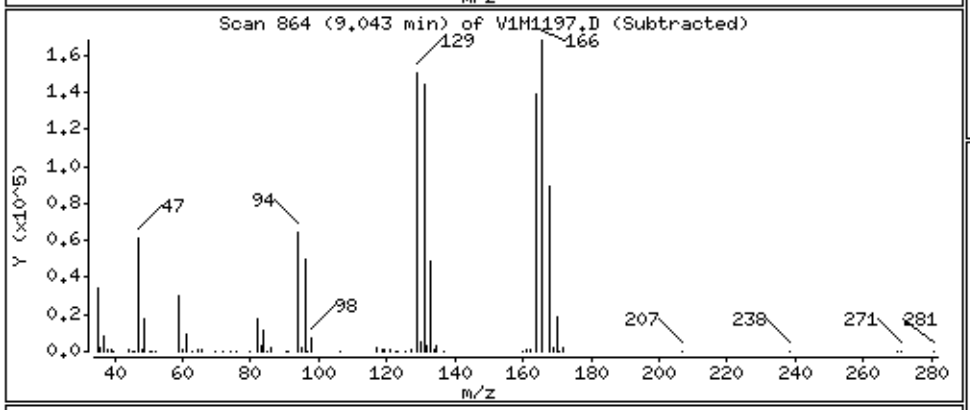
Column phase: DB-624

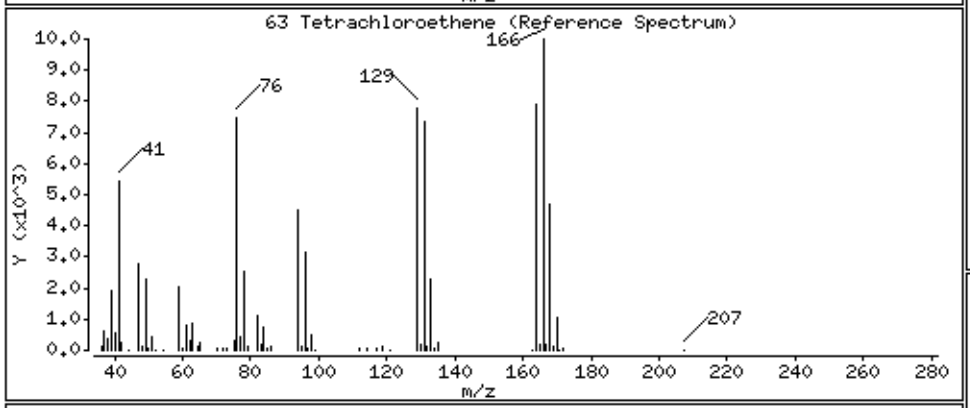
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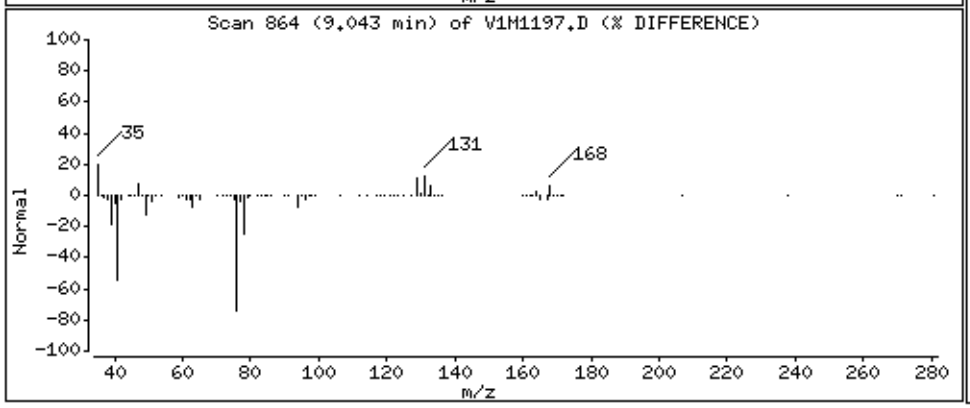
63 Tetrachloroethene

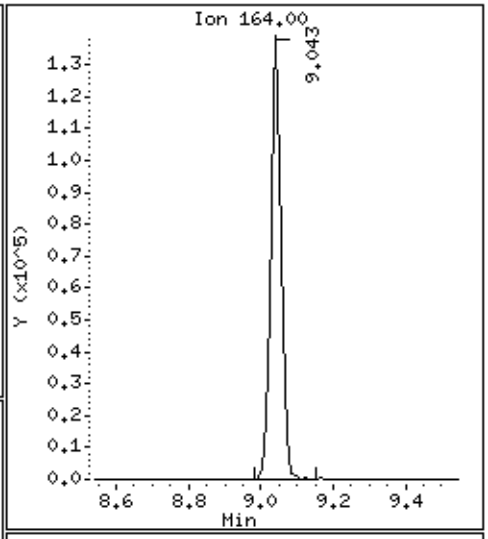
Concentration: 1500 ug/L

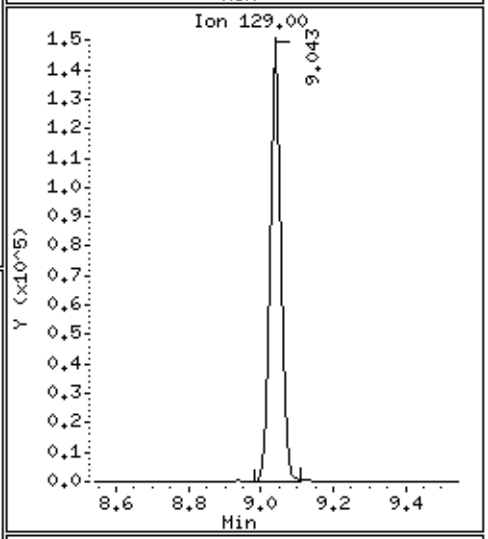


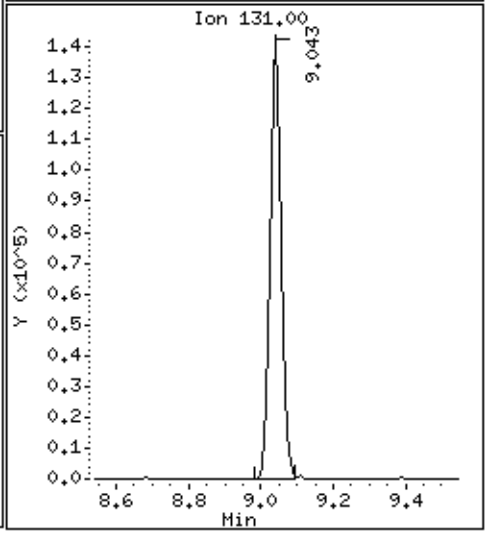












1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-MW-23D

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0834-07A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1196.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/13/2011

% Moisture: not dec. Date Analyzed: 05/17/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	3.0	J
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	1.2	J
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-MW-23D

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0834-07A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1196.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/13/2011

% Moisture: not dec. Date Analyzed: 05/17/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
127-18-4	Tetrachloroethene	25	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U

Data File: \\Avogadro\Organics\V1.I\110517.B\V1M1196.D
Report Date: 18-May-2011 13:43

Mitkem Laboratories

Method 8260 Water and Medium Soil

Data file : \\Avogadro\Organics\V1.I\110517.B\V1M1196.D
Lab Smp Id: K0834-07A Client Smp ID: SL-MW-23D
Inj Date : 17-MAY-2011 10:51
Operator : SZ SRC: LIMS Inst ID: V1.i
Smp Info : 5ML,K0834-07A,,59208
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\V1.I\110517.B\v18260Gadd.m
Meth Date : 18-May-2011 13:41 amarquis Quant Type: ISTD
Cal Date : 05-MAY-2011 12:19 Cal File: V1M1016.D
Als bottle: 33
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

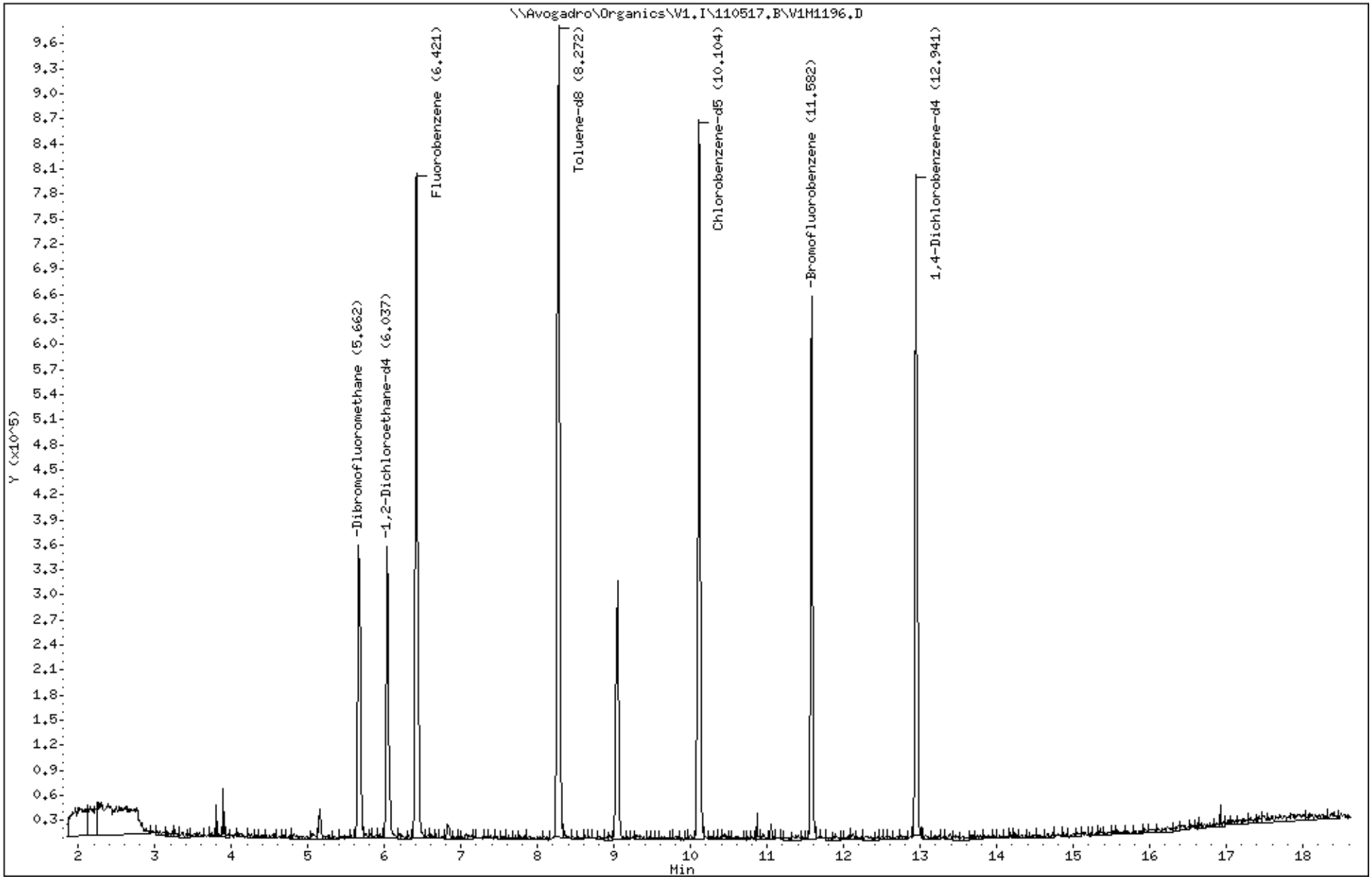
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	28 cis-1,2-Dichloroethene	96	5.150	5.144	(0.802)	14159	3.04984	3(a)
$	36 Dibromofluoromethane	113	5.662	5.656	(0.882)	257976	52.6721	53
$	42 1,2-Dichloroethane-d4	102	6.036	6.040	(0.940)	52525	51.9502	52
*	46 Fluorobenzene	96	6.420	6.415	(1.000)	829733	50.0000	
	47 Trichloroethene	130	6.824	6.828	(1.063)	5385	1.17735	1(a)
$	58 Toluene-d8	98	8.272	8.276	(0.819)	717339	49.6058	50
	63 Tetrachloroethene	164	9.040	9.045	(0.895)	79212	24.7928	25
*	68 Chlorobenzene-d5	117	10.104	10.108	(1.000)	599787	50.0000	
$	79 Bromofluorobenzene	95	11.581	11.586	(1.146)	277435	46.4972	46
*	92 1,4-Dichlorobenzene-d4	152	12.950	12.945	(1.000)	242971	50.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\Avogadro\Organics\V1.I\110517.B\V1M1196.D
Date : 17-MAY-2011 10:51
Client ID: SL-MW-23D
Instrument: V1.i
Sample Info: 5ML,K0834-07A,,59208
Purge Volume: 5.0
Operator: SZ SRC: LIMS
Column phase: DB-624
Column diameter: 0.25



Data File: \\Avogadro\Organics\V1.I\110517.B\V1M1196.D

Date : 17-MAY-2011 10:51

Client ID: SL-MW-23D

Instrument: V1.i

Sample Info: 5ML,K0834-07A,,59208

Purge Volume: 5.0

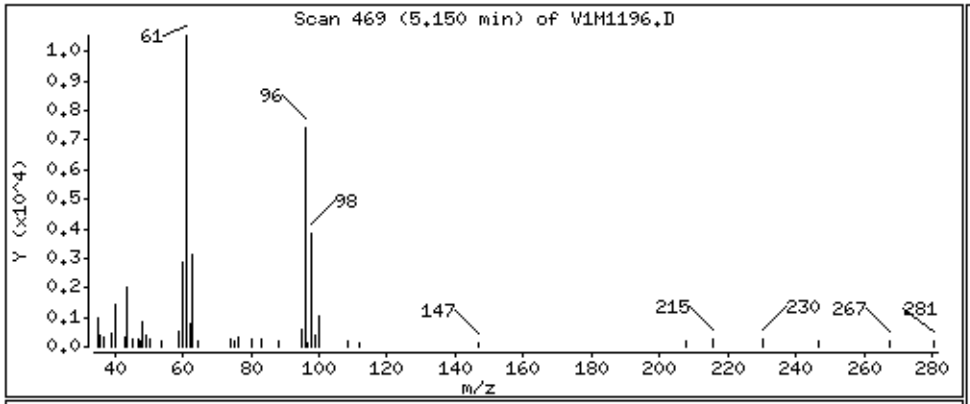
Operator: SZ SRC: LIMS

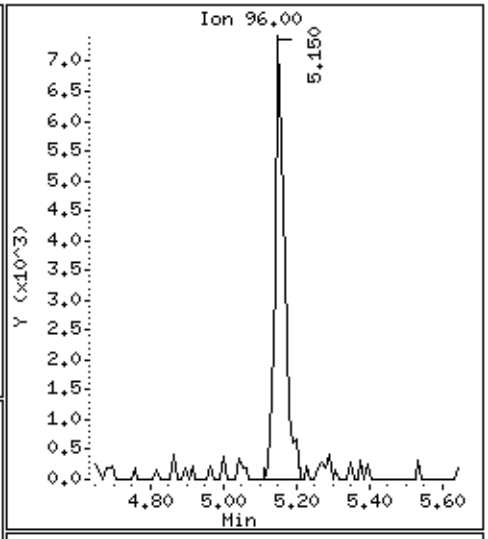
Column phase: DB-624

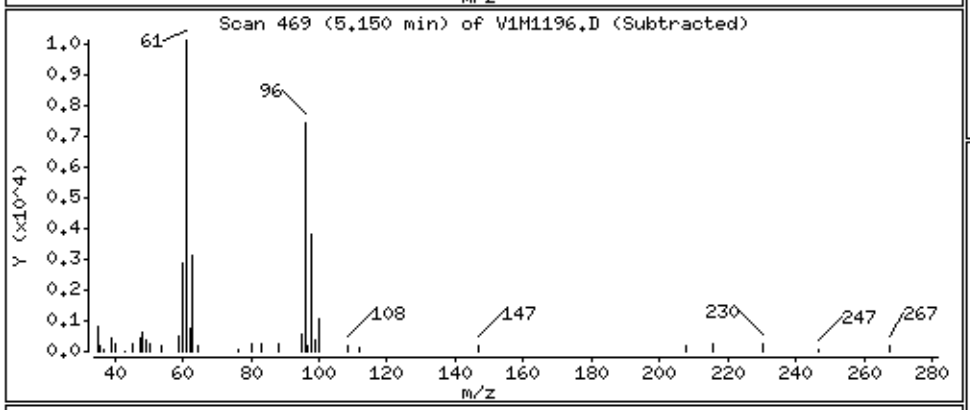
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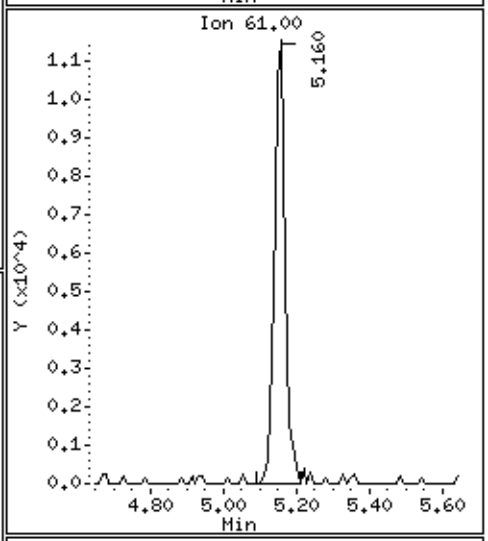
28 cis-1,2-Dichloroethene

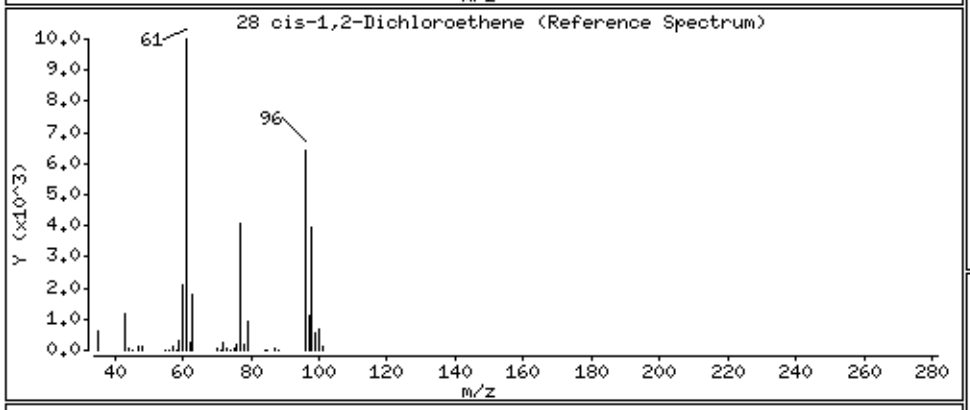
Concentration: 3 ug/L

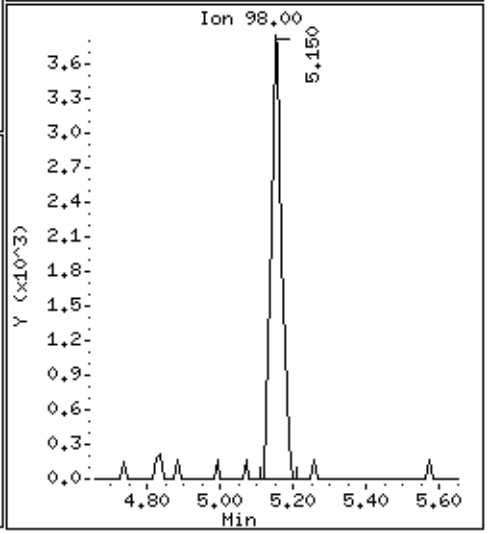


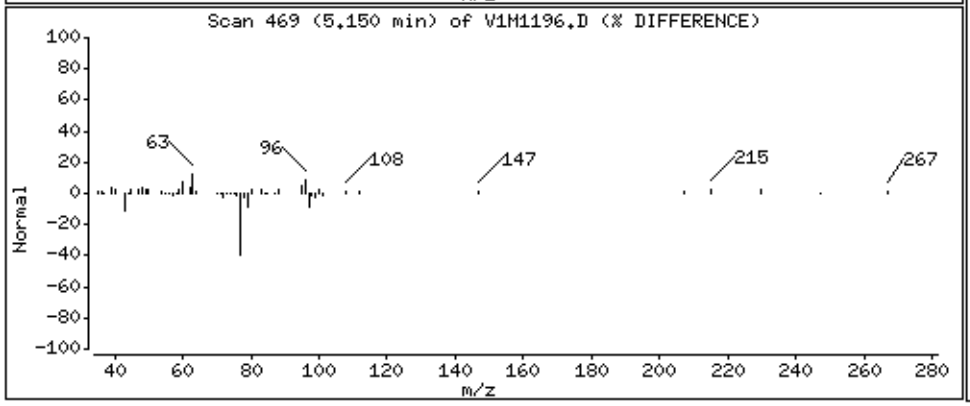












Data File: \\Avogadro\Organics\V1.I\110517.B\V1M1196.D

Date : 17-MAY-2011 10:51

Client ID: SL-MW-23D

Instrument: V1.i

Sample Info: 5ML,K0834-07A,,59208

Purge Volume: 5.0

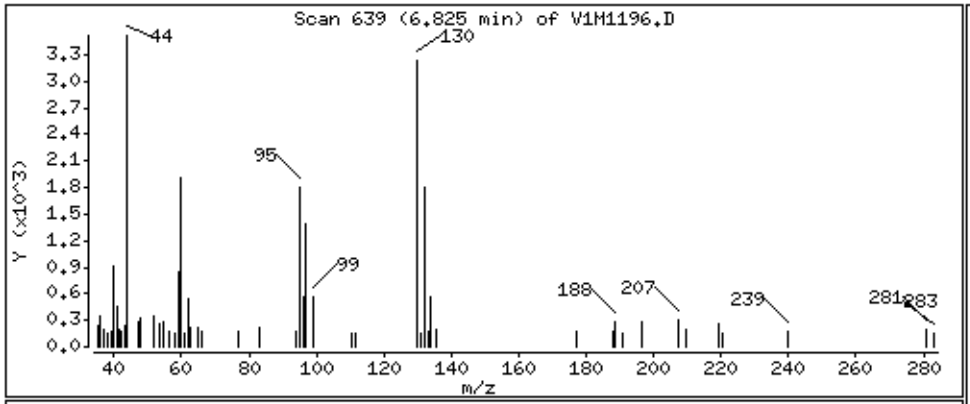
Operator: SZ SRC: LIMS

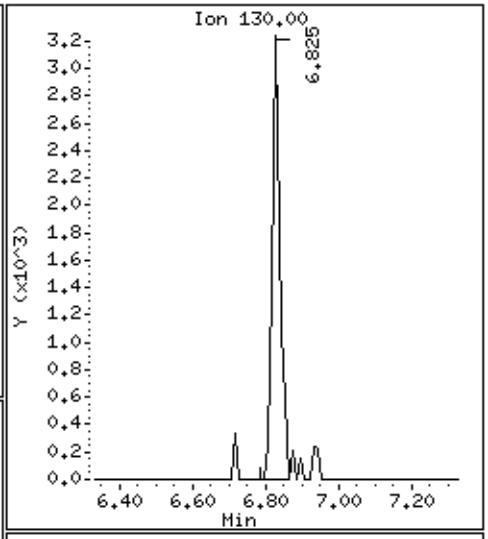
Column phase: DB-624

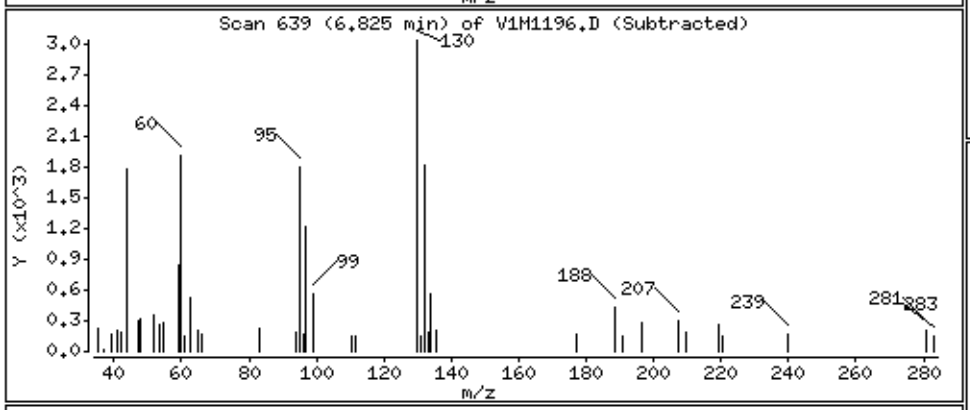
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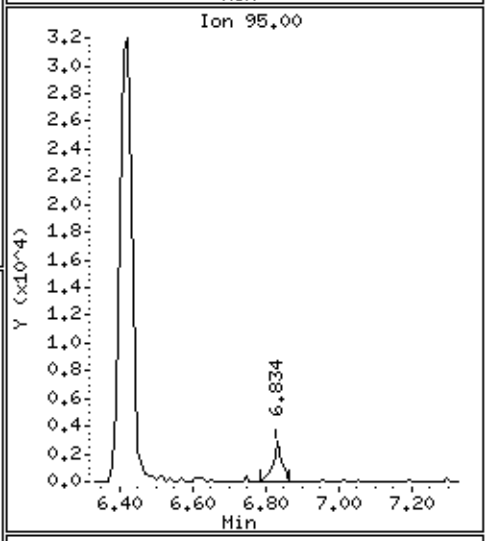
47 Trichloroethene

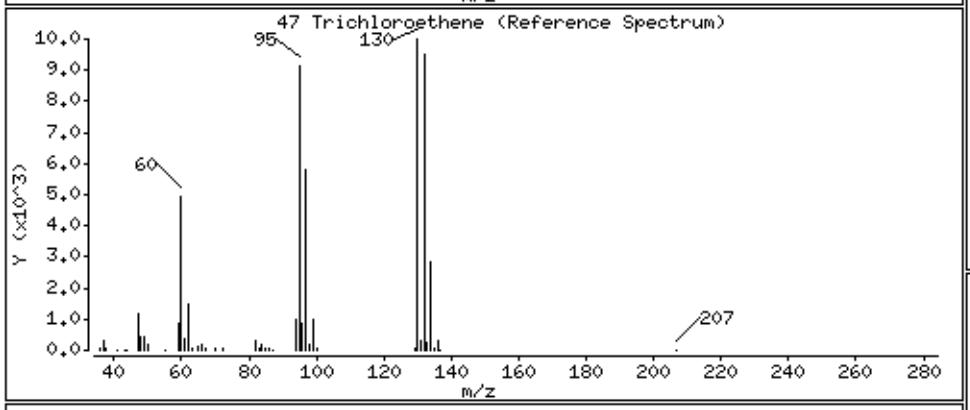
Concentration: 1 ug/L

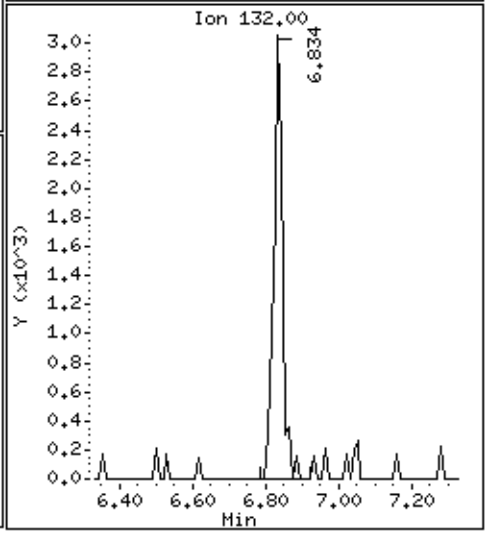


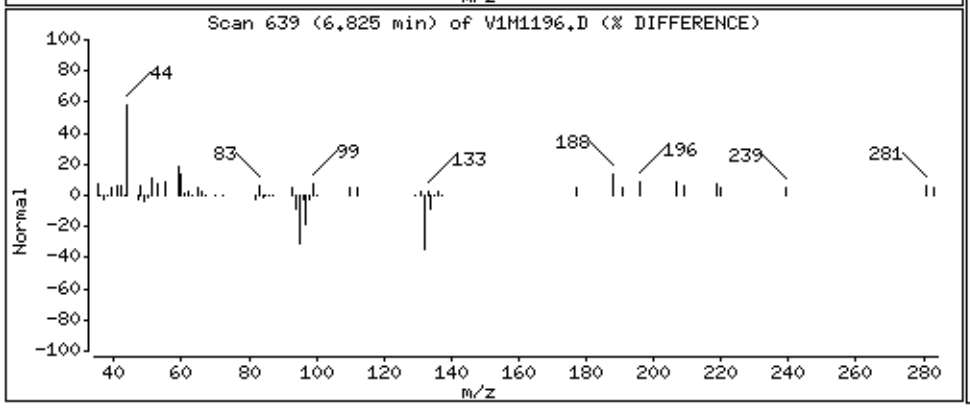












Data File: \\Avogadro\Organics\V1.I\110517.B\V1M1196.D

Date : 17-MAY-2011 10:51

Client ID: SL-MW-23D

Instrument: V1.i

Sample Info: 5ML,K0834-07A,,59208

Purge Volume: 5.0

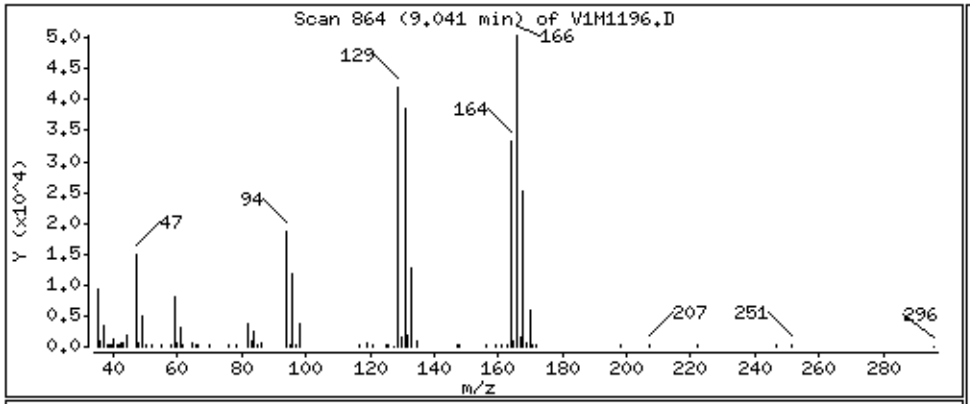
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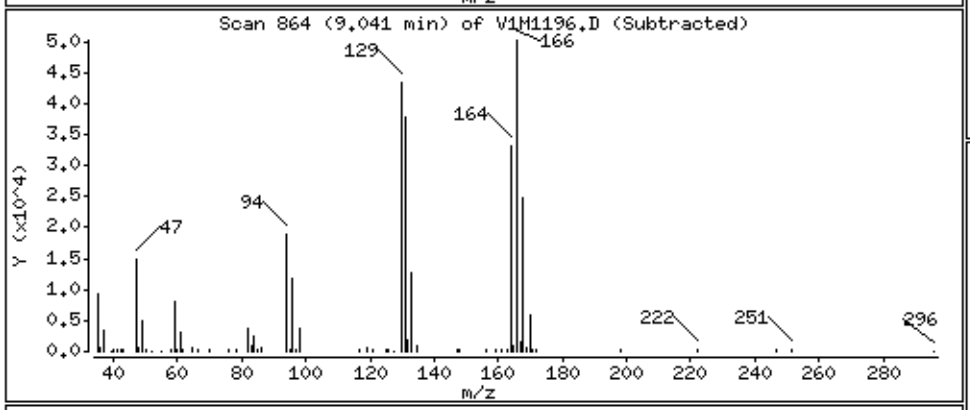
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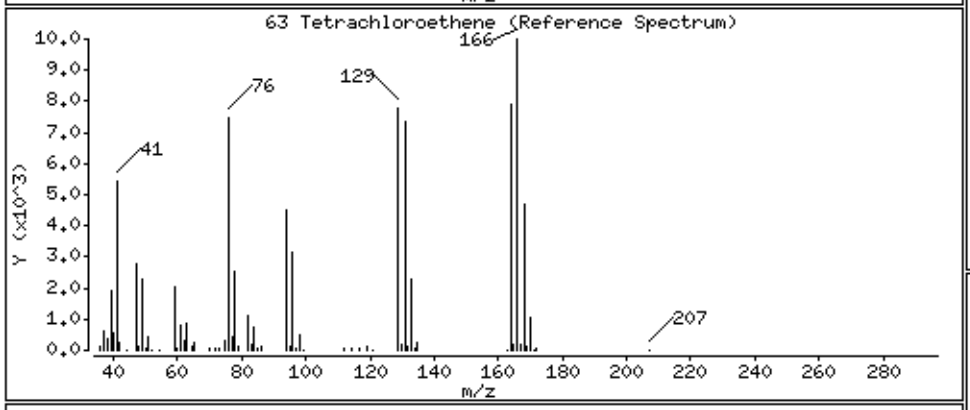
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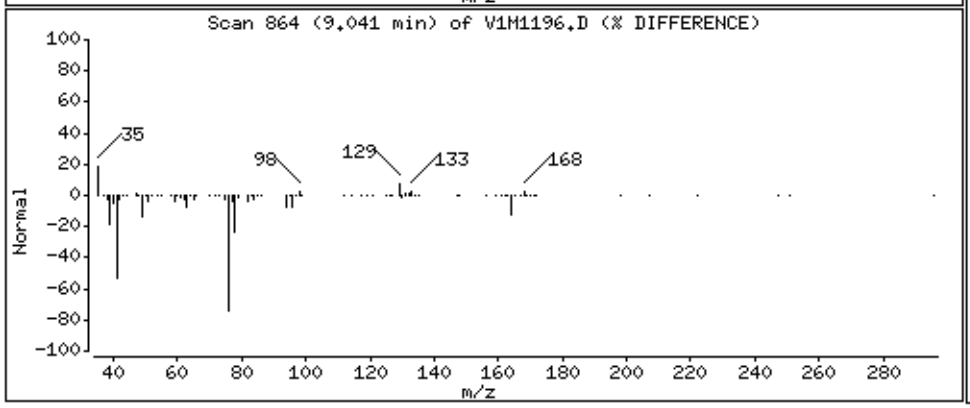
63 Tetrachloroethene

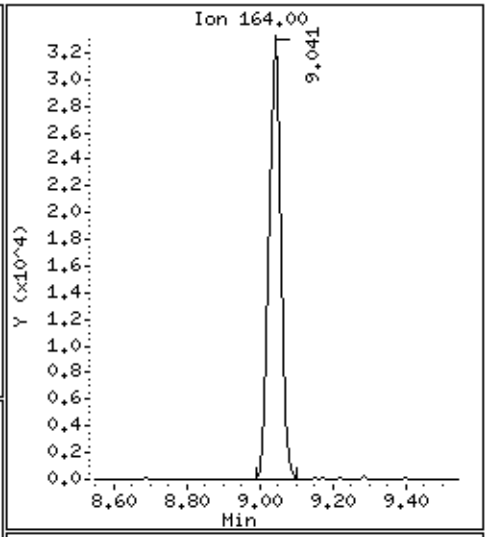
Concentration: 25 ug/L

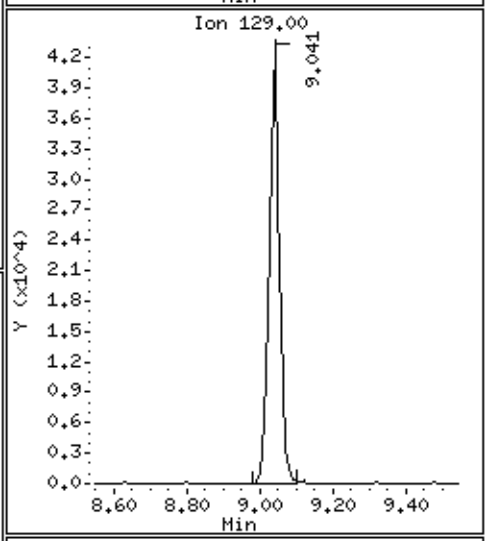


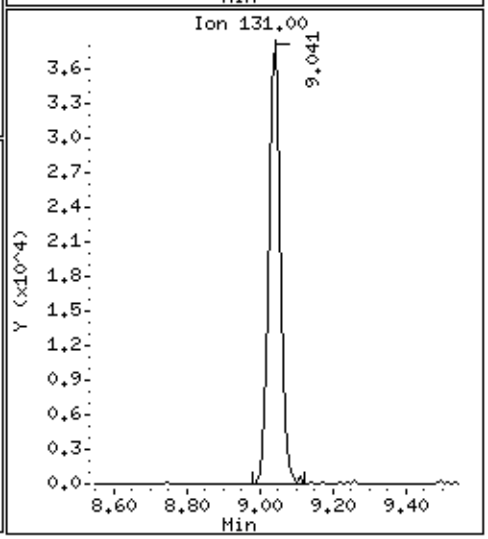












1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-MW-16

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0834-08A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1174.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/13/2011

% Moisture: not dec. Date Analyzed: 05/16/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	8.0	
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	7.5	
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-MW-16

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0834-08A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1174.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/13/2011

% Moisture: not dec. Date Analyzed: 05/16/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
127-18-4	Tetrachloroethene	95	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U

Data File: \\Avogadro\Organics\V1.I\110516.B\V1M1174.D
Report Date: 02-Jun-2011 13:06

Mitkem Laboratories

Method 8260 Water and Medium Soil

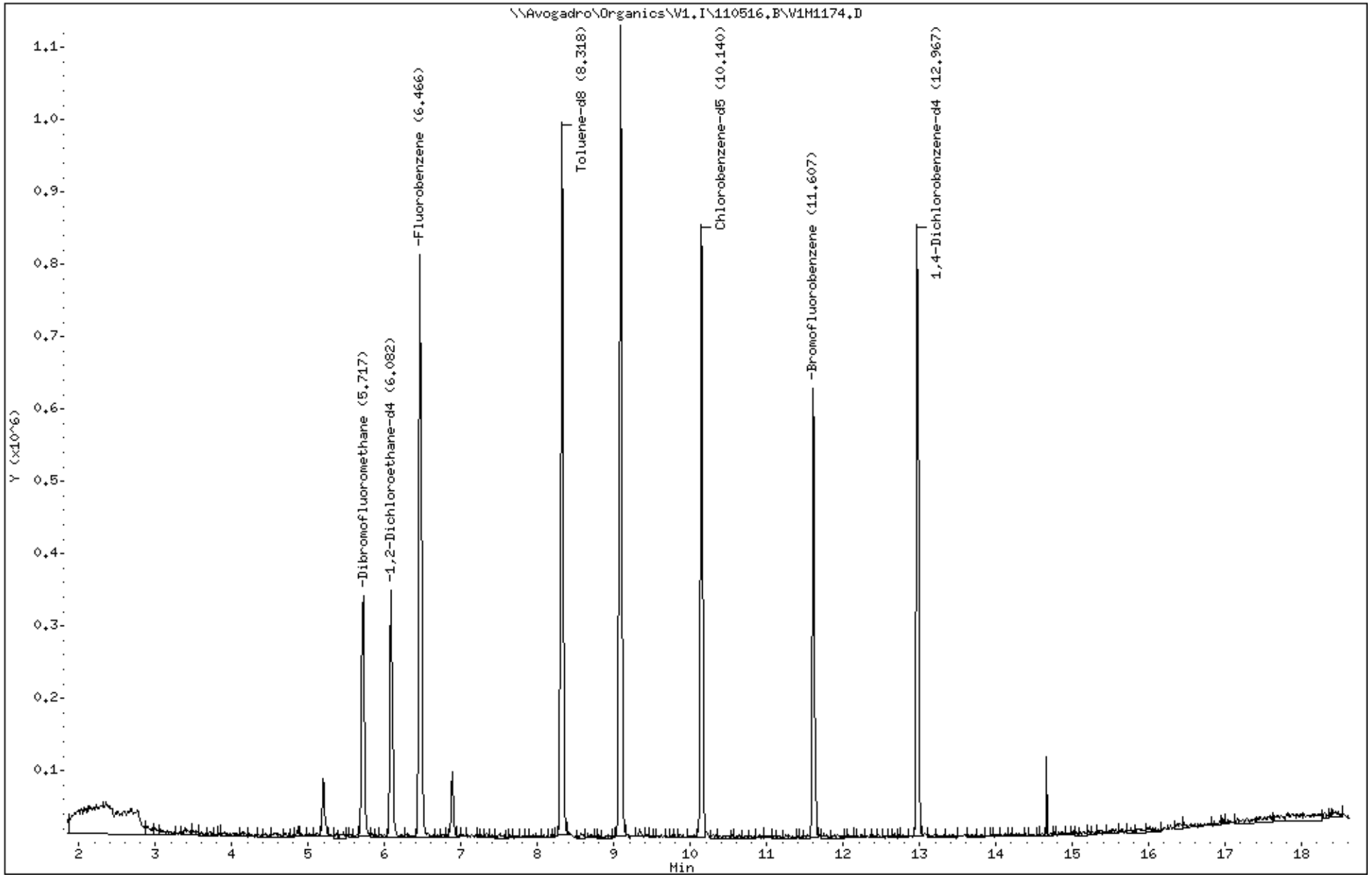
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Lab Smp Id: K0834-08A Client Smp ID: SL-MW-16
Inj Date : 16-MAY-2011 15:19
Operator : SZ SRC: LIMS Inst ID: V1.i
Smp Info : 5ML,K0834-08A,,59186
Misc Info :
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Meth Date : 02-Jun-2011 13:06 cmosher Quant Type: ISTD
Cal Date : 05-MAY-2011 12:19 Cal File: V1M1016.D
Als bottle: 41
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	28	cis-1,2-Dichloroethene	96	5.195	5.190	(0.803)	36721	8.02956	8
$	36	Dibromofluoromethane	113	5.717	5.701	(0.884)	250597	51.9410	52
$	42	1,2-Dichloroethane-d4	102	6.081	6.076	(0.941)	51868	52.0780	52
*	46	Fluorobenzene	96	6.465	6.450	(1.000)	817345	50.0000	
	47	Trichloroethene	130	6.879	6.864	(1.064)	33827	7.50786	8
$	58	Toluene-d8	98	8.317	8.302	(0.819)	701015	49.1593	49
	63	Tetrachloroethene	164	9.085	9.070	(0.895)	298905	94.8720	95
*	68	Chlorobenzene-d5	117	10.149	10.134	(1.000)	591462	50.0000	
$	79	Bromofluorobenzene	95	11.607	11.591	(1.144)	282718	48.0495	48
*	92	1,4-Dichlorobenzene-d4	152	12.966	12.961	(1.000)	251816	50.0000	

Data File: \\Avogadro\Organics\V1.I\110516.B\V1M1174.D
Date : 16-MAY-2011 15:19
Client ID: SL-MW-16
Instrument: V1.i
Sample Info: 5ML,K0834-08A,,59186
Purge Volume: 5.0
Operator: SZ SRC: LIMS
Column phase: DB-624
Column diameter: 0.25



Data File: \\Avogadro\Organics\V1.I\110516.B\V1M1174.D

Date : 16-MAY-2011 15:19

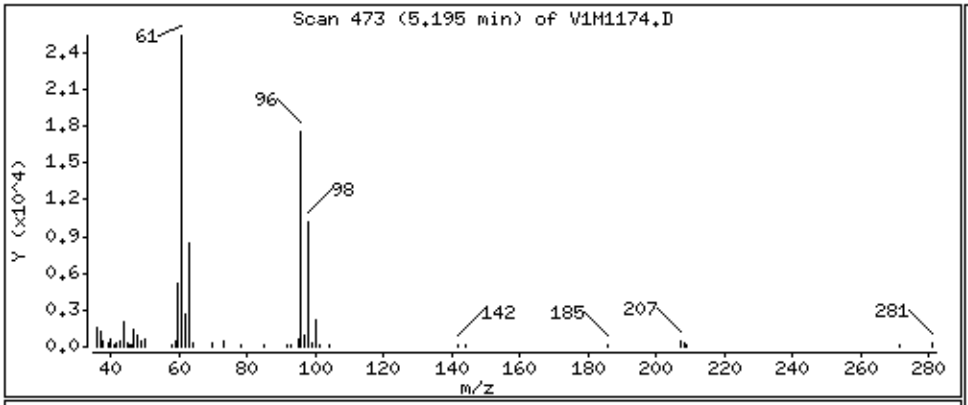
Client ID: SL-MW-16 Instrument: V1.i

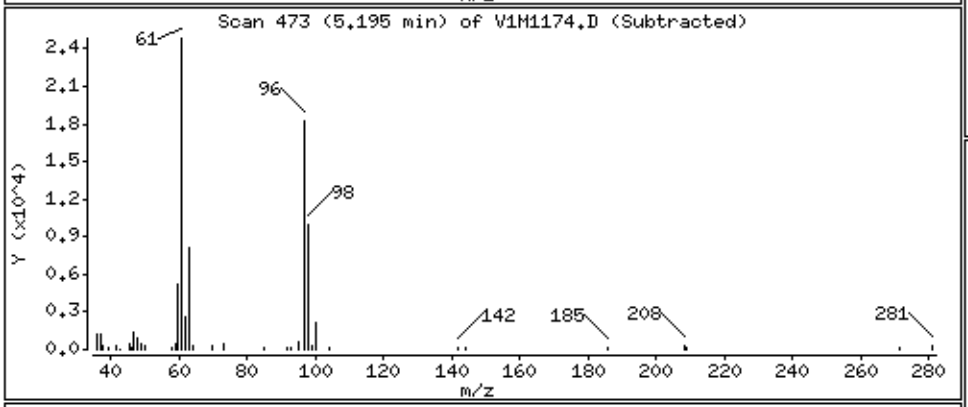
Sample Info: 5ML,K0834-08A,,59186

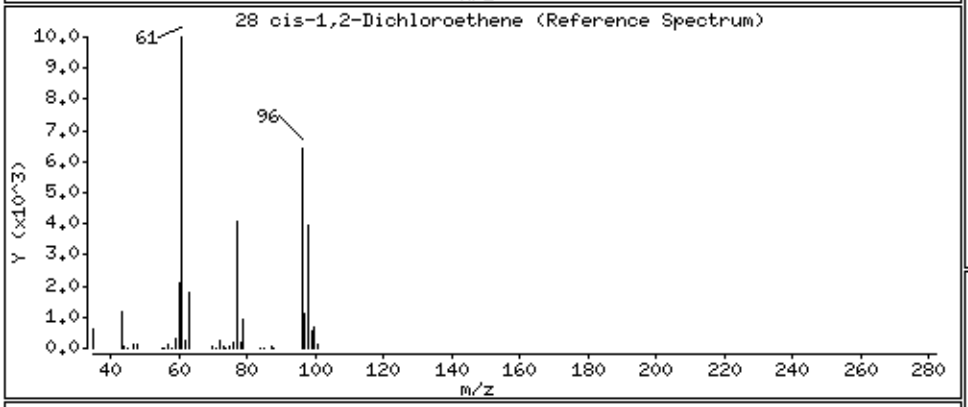
Purge Volume: 5.0 Operator: SZ SRC: LIMS

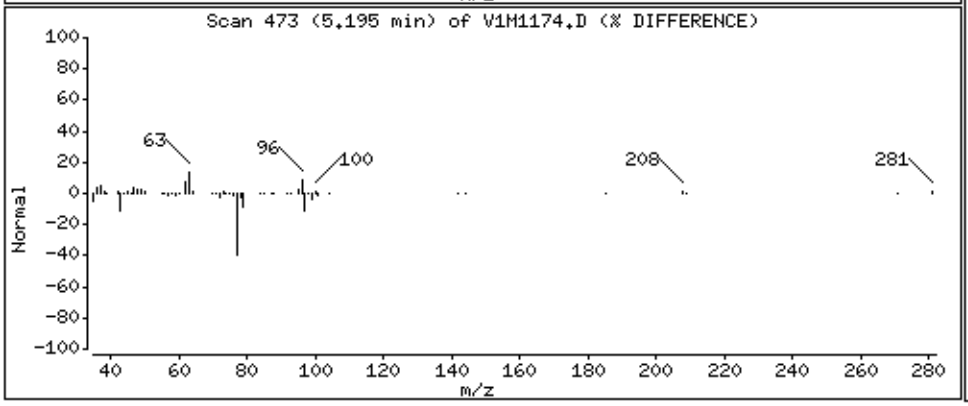
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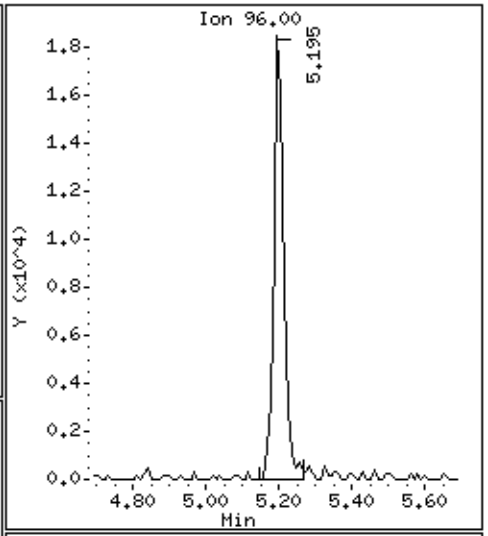
28 cis-1,2-Dichloroethene Concentration: 8 ug/L

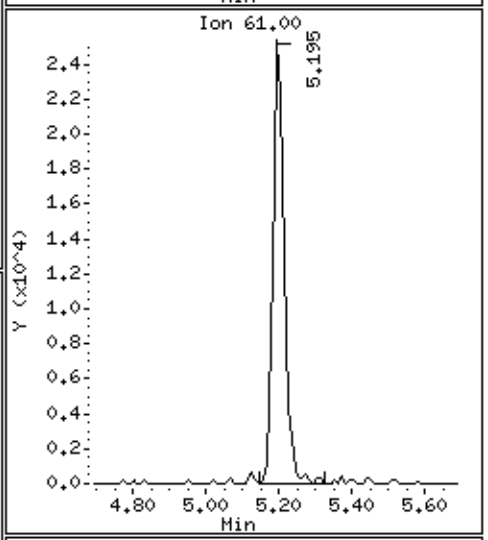


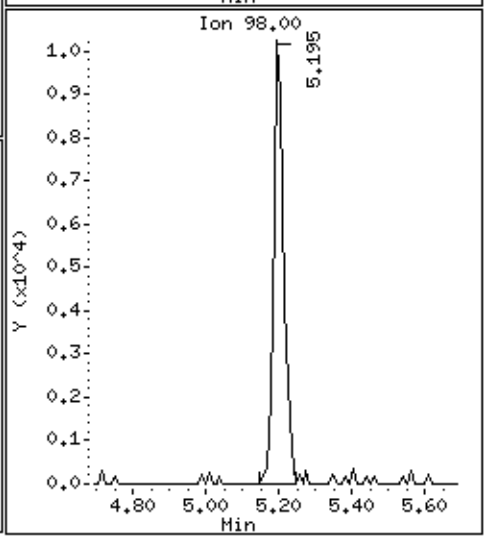












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Date : 16-MAY-2011 15:19

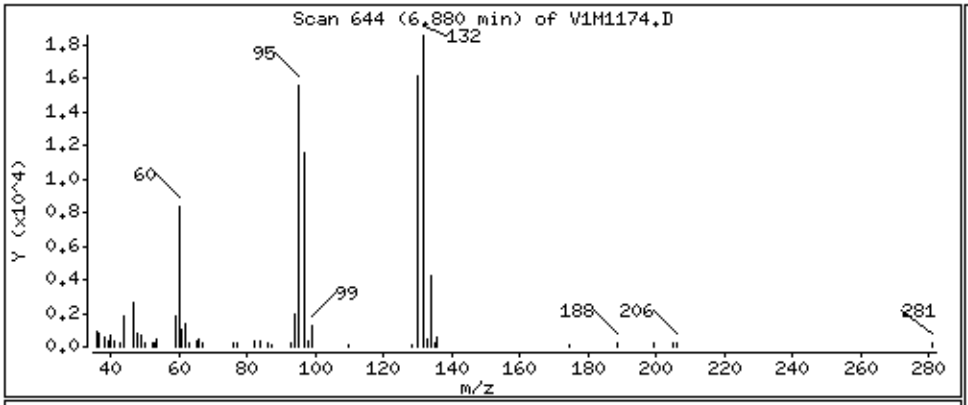
Client ID: SL-MW-16 Instrument: V1.i

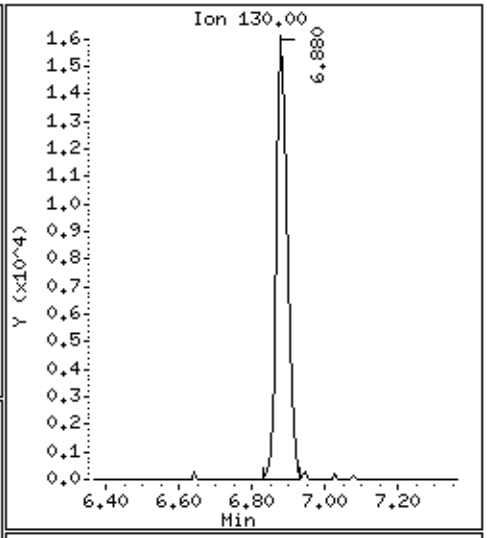
Sample Info: 5ML,K0834-08A,,59186

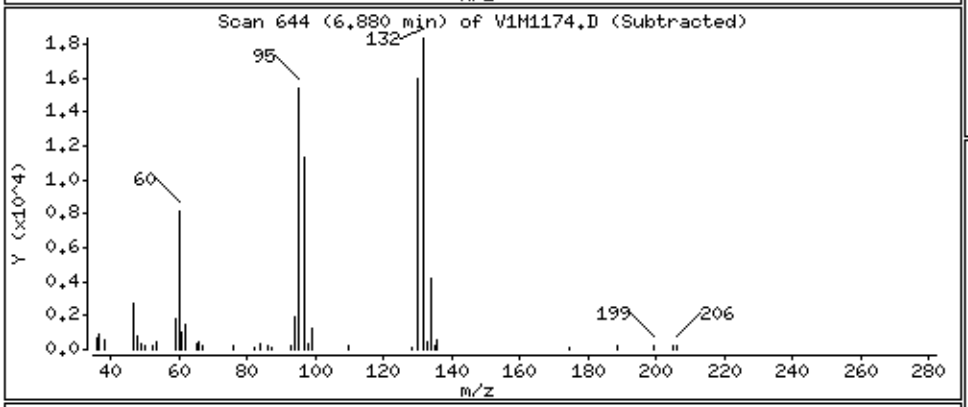
Purge Volume: 5.0 Operator: SZ SRC: LIMS

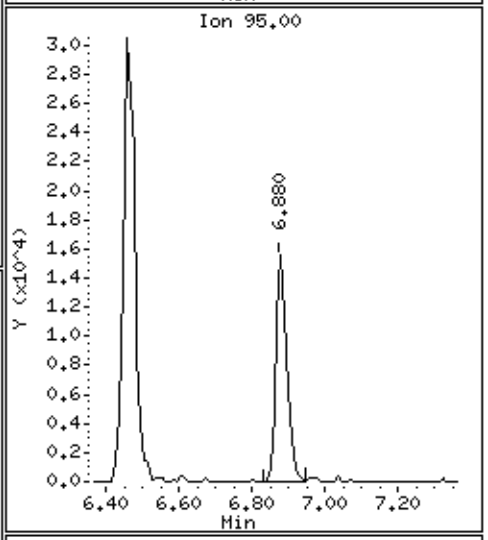
Column phase: DB-624 Column diameter: 0.25

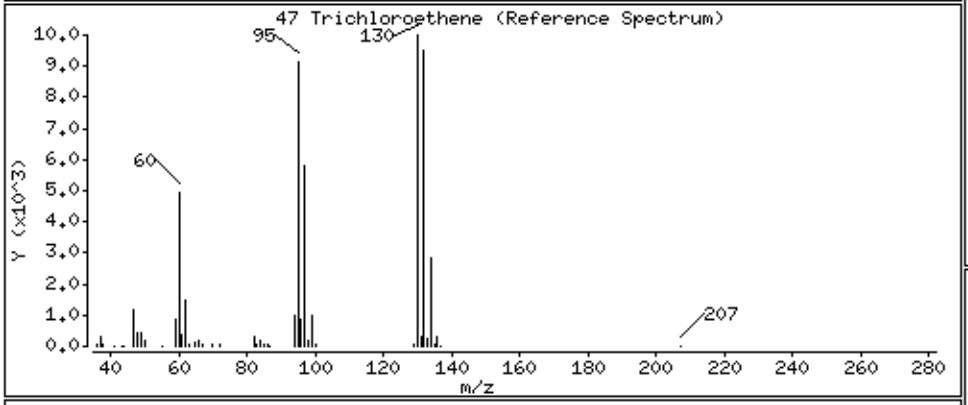
47 Trichloroethene Concentration: 8 ug/L

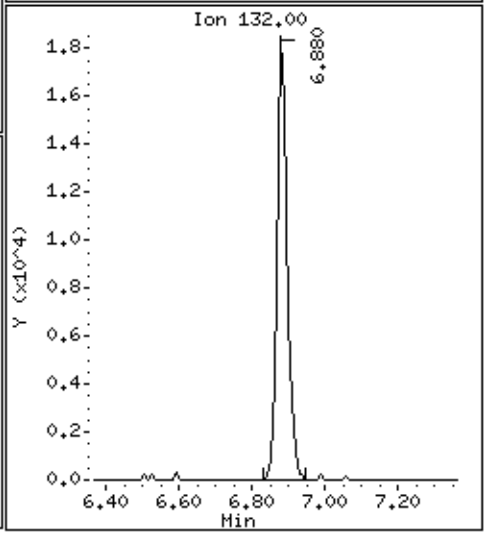


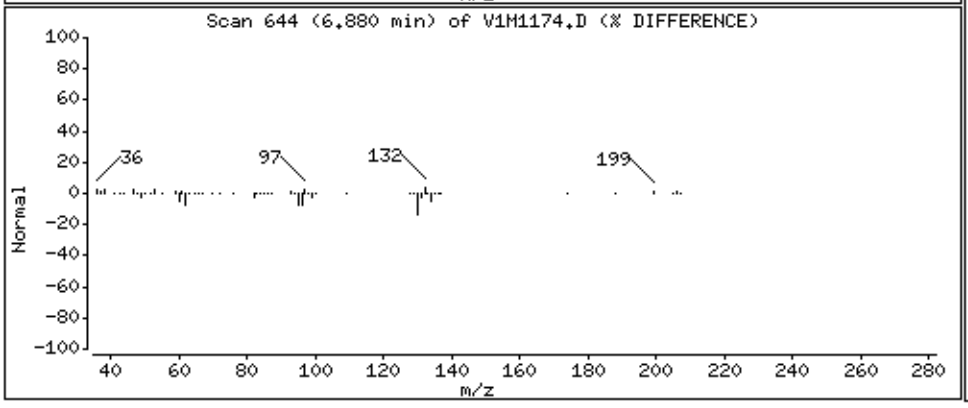












Data File: \\Avogadro\Organics\V1.I\110516.B\V1M1174.D

Date : 16-MAY-2011 15:19

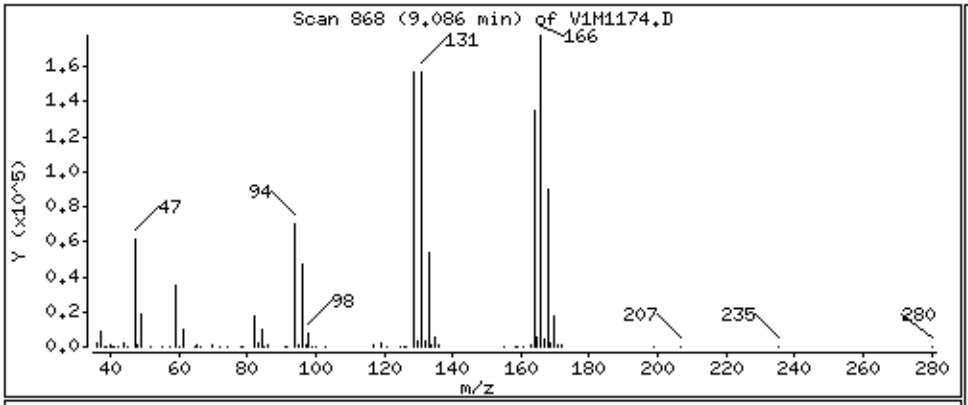
Client ID: SL-MW-16 Instrument: V1.i

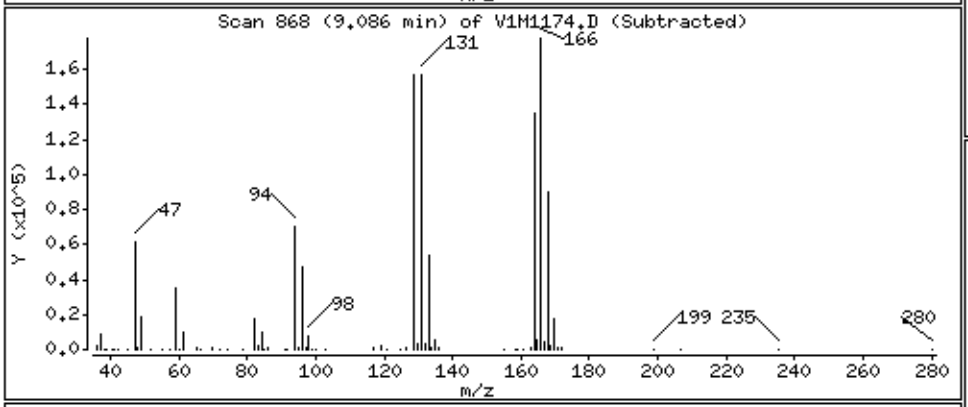
Sample Info: 5ML,K0834-08A,,59186

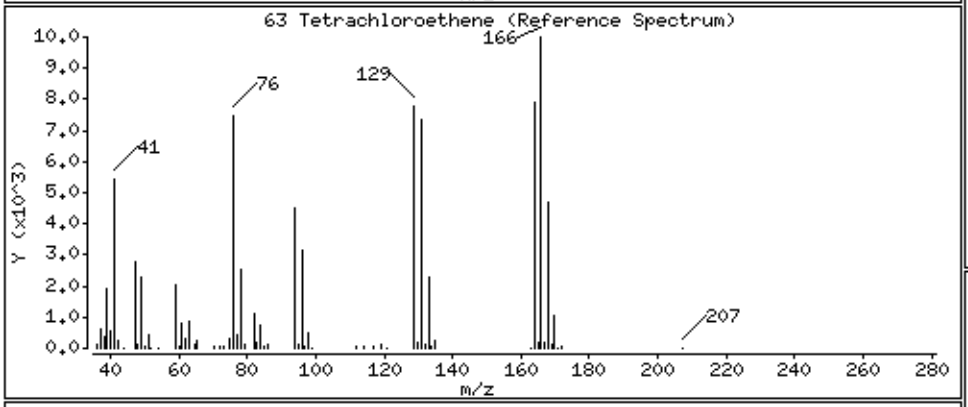
Purge Volume: 5.0 Operator: SZ SRC: LIMS

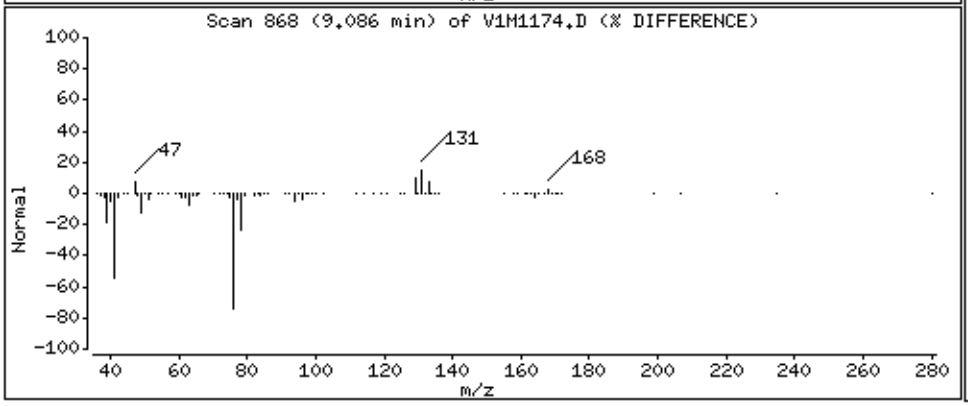
Column phase: DB-624 Column diameter: 0.25

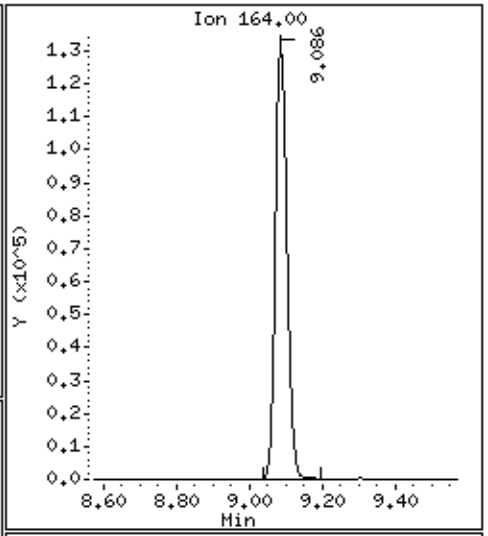
63 Tetrachloroethene Concentration: 95 ug/L

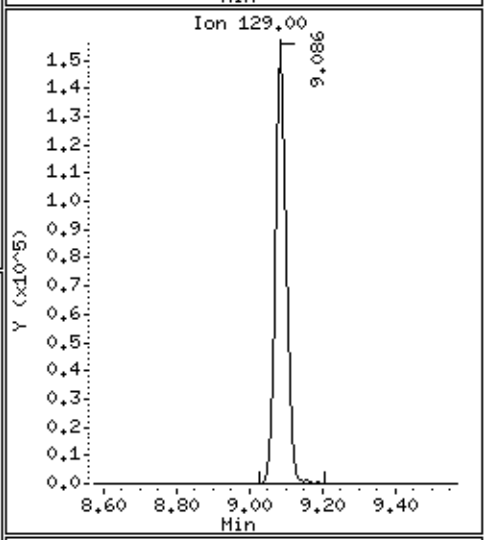


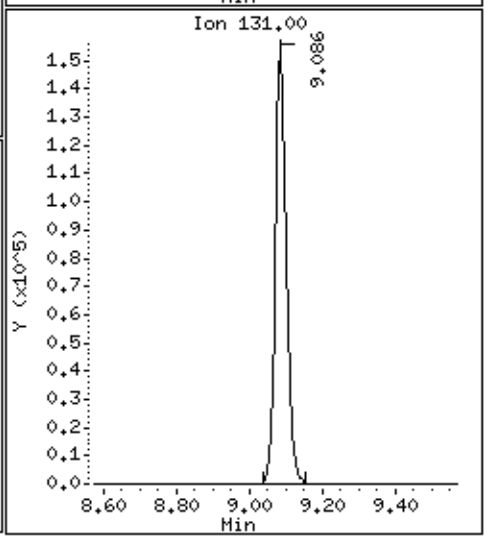












1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-MW-2

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0834-09A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1175.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/13/2011

% Moisture: not dec. Date Analyzed: 05/16/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-MW-2

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0834-09A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1175.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/13/2011

% Moisture: not dec. Date Analyzed: 05/16/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
127-18-4	Tetrachloroethene	2.1	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U

Data File: \\avogadro\organics\V1.I\110516.B\V1M1175.D
Report Date: 17-May-2011 11:36

Mitkem Laboratories

Method 8260 Water and Medium Soil

Data file : \\avogadro\organics\V1.I\110516.B\V1M1175.D
Lab Smp Id: K0834-09A Client Smp ID: SL-MW-2
Inj Date : 16-MAY-2011 15:45
Operator : SZ SRC: LIMS Inst ID: V1.i
Smp Info : 5ML,K0834-09A,,59186
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\V1.I\110516.B\v18260Gadd.m
Meth Date : 17-May-2011 11:20 vbrizard Quant Type: ISTD
Cal Date : 05-MAY-2011 12:19 Cal File: V1M1016.D
Als bottle: 42
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

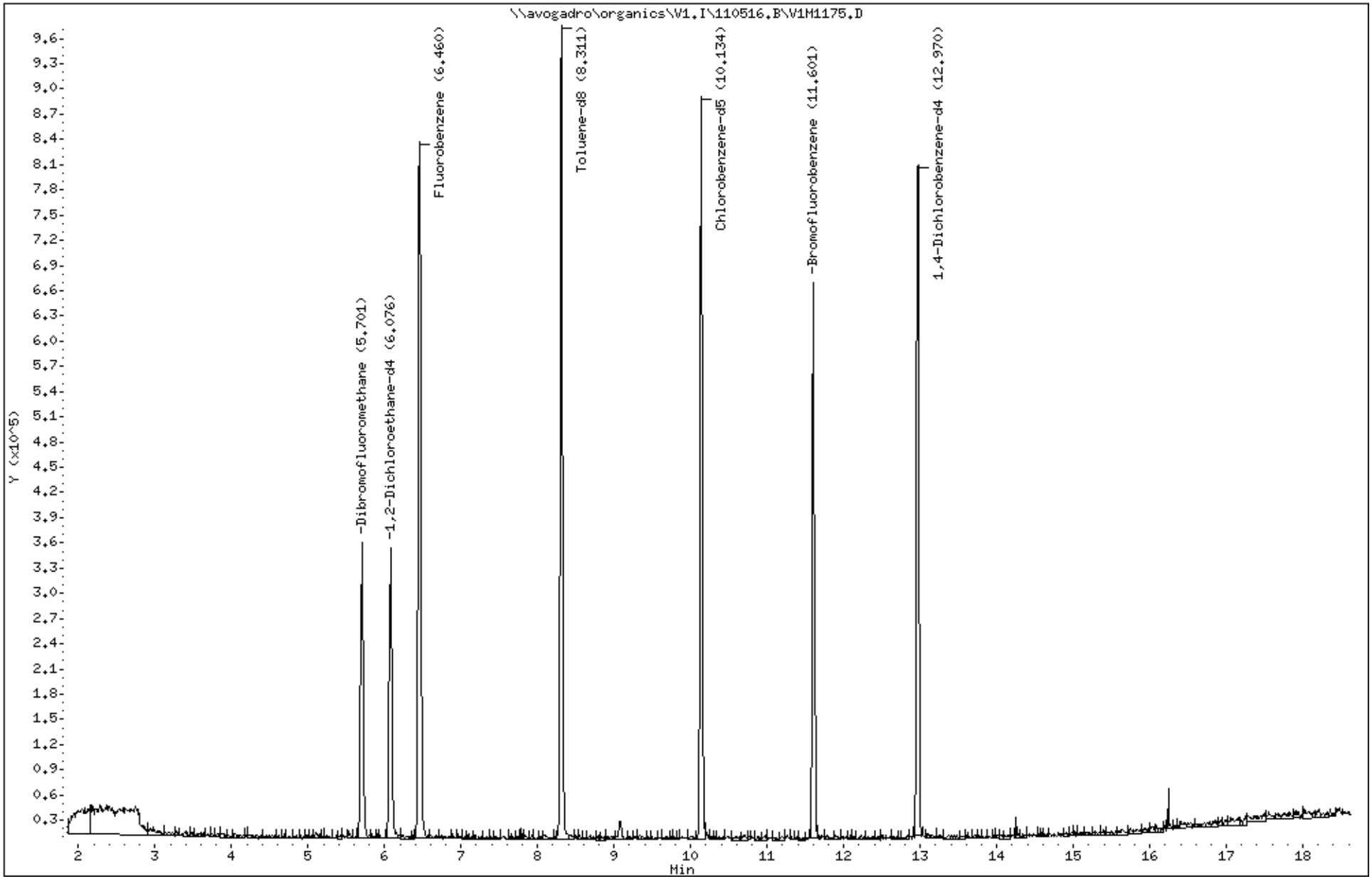
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
$ 36 Dibromofluoromethane	113	5.701	5.701	(0.883)	265283	53.7000	54
$ 42 1,2-Dichloroethane-d4	102	6.075	6.076	(0.941)	51113	50.1206	50
* 46 Fluorobenzene	96	6.459	6.450	(1.000)	836902	50.0000	
$ 58 Toluene-d8	98	8.311	8.302	(0.820)	714400	49.3647	49
63 Tetrachloroethene	164	9.089	9.070	(0.897)	6778	2.11984	2(a)
* 68 Chlorobenzene-d5	117	10.133	10.134	(1.000)	600247	50.0000	
$ 79 Bromofluorobenzene	95	11.601	11.591	(1.145)	279900	46.8744	47
* 92 1,4-Dichlorobenzene-d4	152	12.970	12.961	(1.000)	248678	50.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\V1.I\110516.B\V1M1175.D
Date : 16-MAY-2011 15:45
Client ID: SL-MW-2
Instrument: V1.i
Sample Info: 5ML,K0834-09A,,59186
Purge Volume: 5.0
Operator: SZ SRC: LIMS
Column phase: DB-624
Column diameter: 0.25



Data File: \\avogadro\organics\V1.I\110516.B\V1M1175.D

Date : 16-MAY-2011 15:45

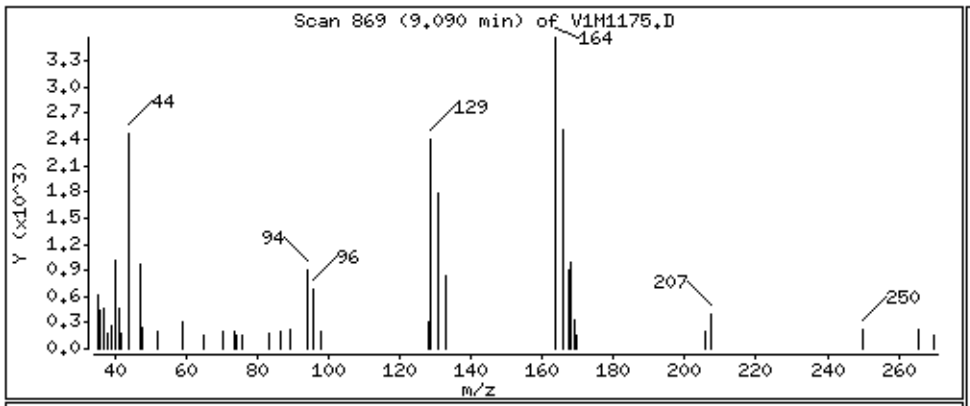
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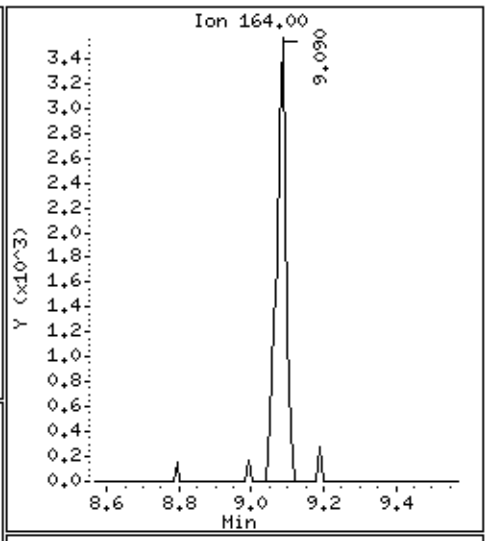
Sample Info: 5ML,K0834-09A,,59186

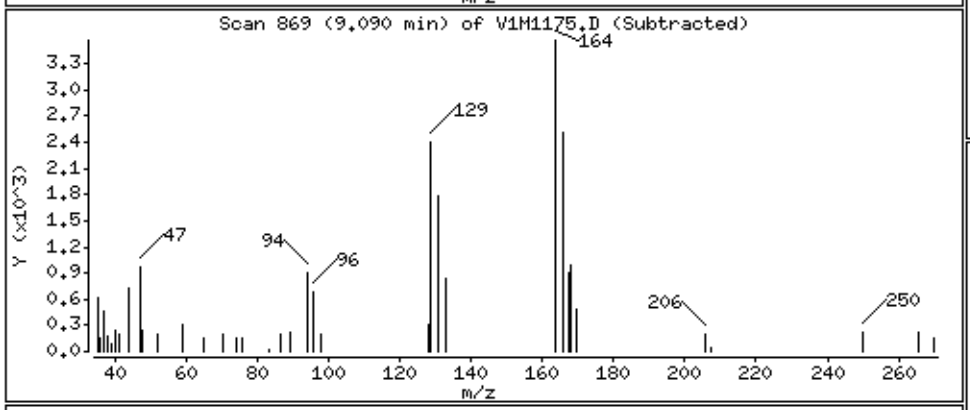
Purge Volume: 5.0 Operator: SZ SRC: LIMS

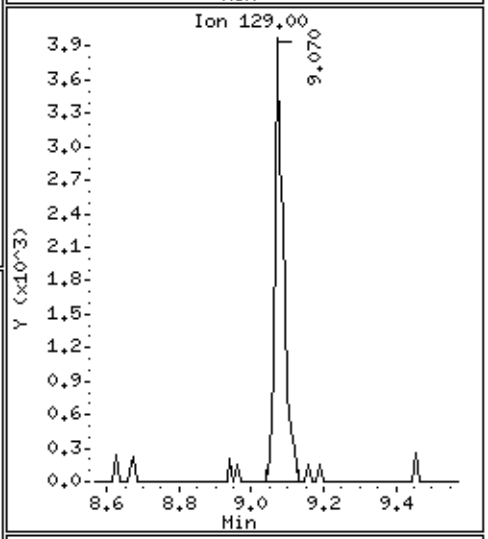
Column phase: DB-624 Column diameter: 0.25

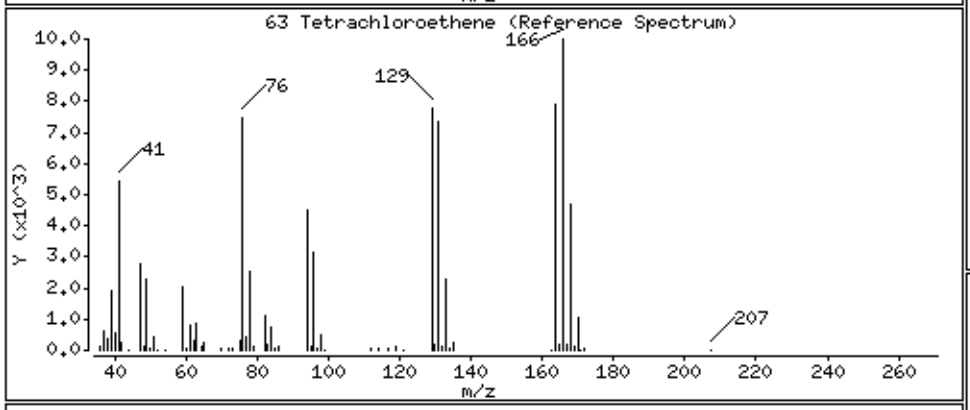
63 Tetrachloroethene Concentration: 2 ug/L

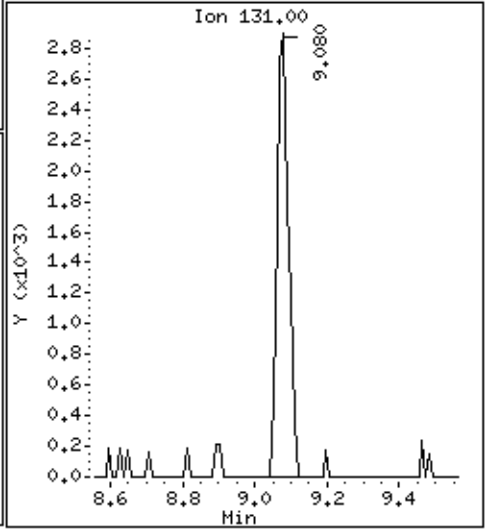


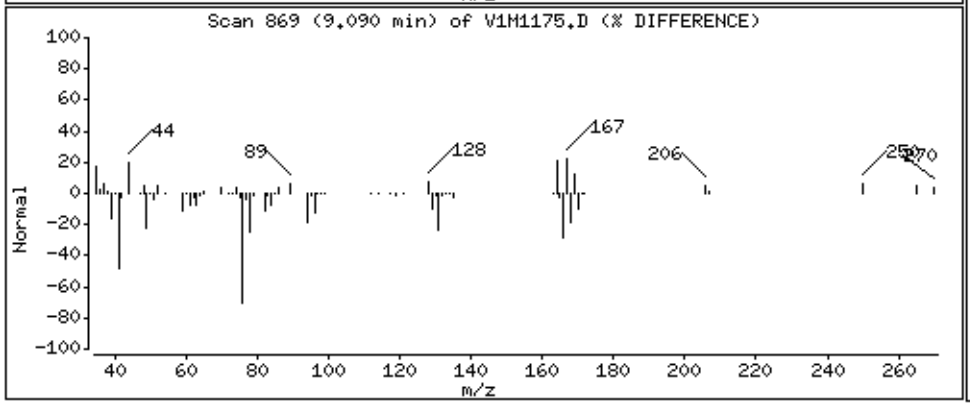












1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-MW-3A

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0834-10A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1176.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/13/2011

% Moisture: not dec. Date Analyzed: 05/16/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-MW-3A

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0834-10A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1176.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/13/2011

% Moisture: not dec. Date Analyzed: 05/16/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U

Data File: \\avogadro\organics\V1.I\110516.B\V1M1176.D
Report Date: 17-May-2011 11:36

Mitkem Laboratories

Method 8260 Water and Medium Soil

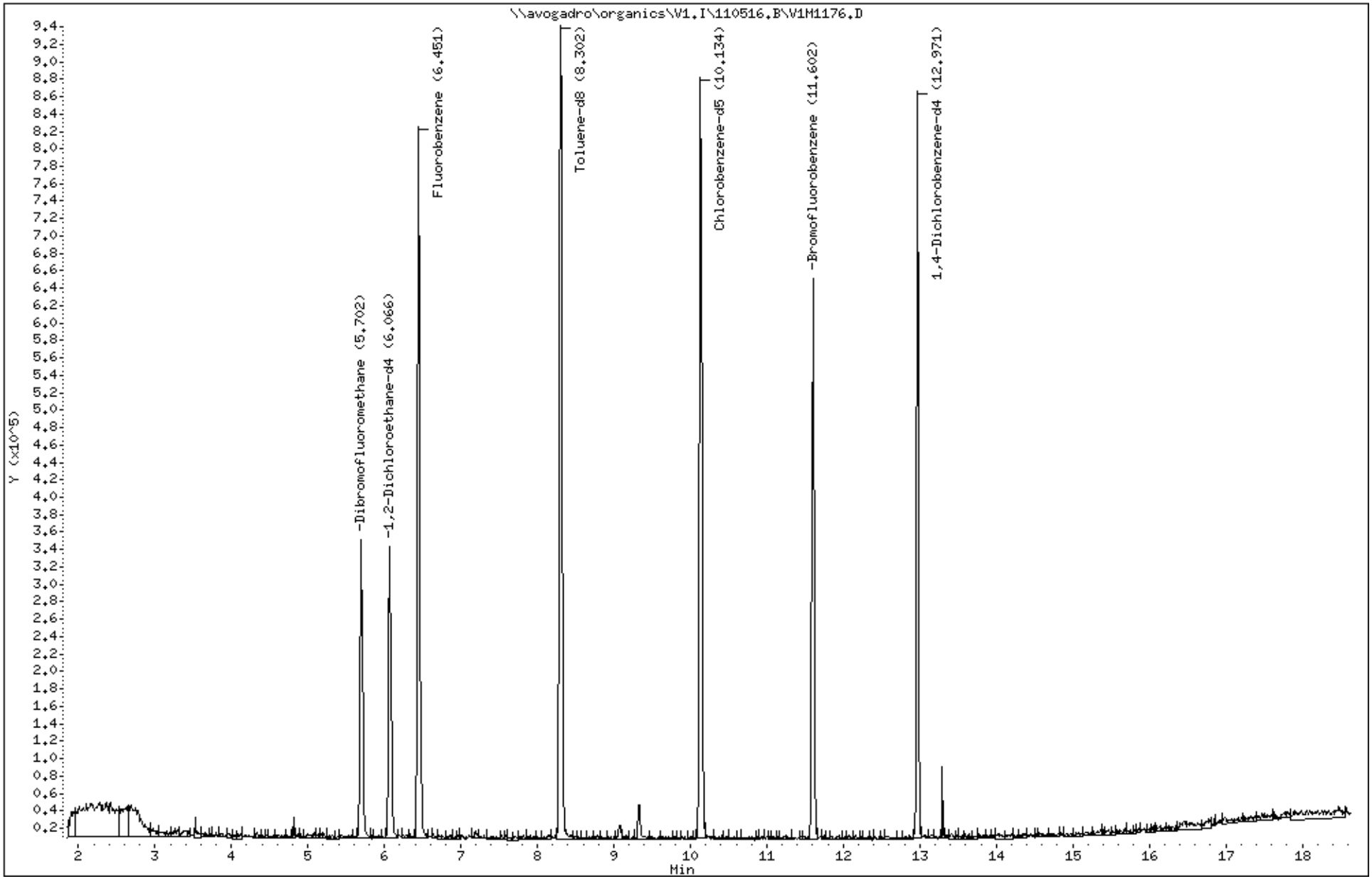
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Lab Smp Id: K0834-10A Client Smp ID: SL-MW-3A
Inj Date : 16-MAY-2011 16:11
Operator : SZ SRC: LIMS Inst ID: V1.i
Smp Info : 5ML,K0834-10A,,59186
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\V1.I\110516.B\v18260Gadd.m
Meth Date : 17-May-2011 11:20 vbrizard Quant Type: ISTD
Cal Date : 05-MAY-2011 12:19 Cal File: V1M1016.D
Als bottle: 43
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
$ 36 Dibromofluoromethane	113	5.702	5.701	(0.884)	244408	51.6108	52
$ 42 1,2-Dichloroethane-d4	102	6.066	6.076	(0.940)	48408	49.5179	50
* 46 Fluorobenzene	96	6.450	6.450	(1.000)	802259	50.0000	
$ 58 Toluene-d8	98	8.302	8.302	(0.819)	693533	48.4859	48
* 68 Chlorobenzene-d5	117	10.134	10.134	(1.000)	593276	50.0000	
$ 79 Bromofluorobenzene	95	11.601	11.591	(1.145)	287009	48.6297	49
* 92 1,4-Dichlorobenzene-d4	152	12.971	12.961	(1.000)	244291	50.0000	

Data File: \\avogadro\organics\V1.I\110516.B\V1M1176.D
Date : 16-MAY-2011 16:11
Client ID: SL-MW-3A
Instrument: V1.i
Sample Info: 5ML,K0834-10A,,59186
Purge Volume: 5.0
Operator: SZ SRC: LIMS
Column phase: DB-624
Column diameter: 0.25



1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-MW-3B

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0834-11A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1177.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/13/2011

% Moisture: not dec. Date Analyzed: 05/16/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-MW-3B

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0834-11A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1177.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/13/2011

% Moisture: not dec. Date Analyzed: 05/16/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U

Data File: \\avogadro\organics\V1.I\110516.B\V1M1177.D
Report Date: 17-May-2011 11:36

Mitkem Laboratories

Method 8260 Water and Medium Soil

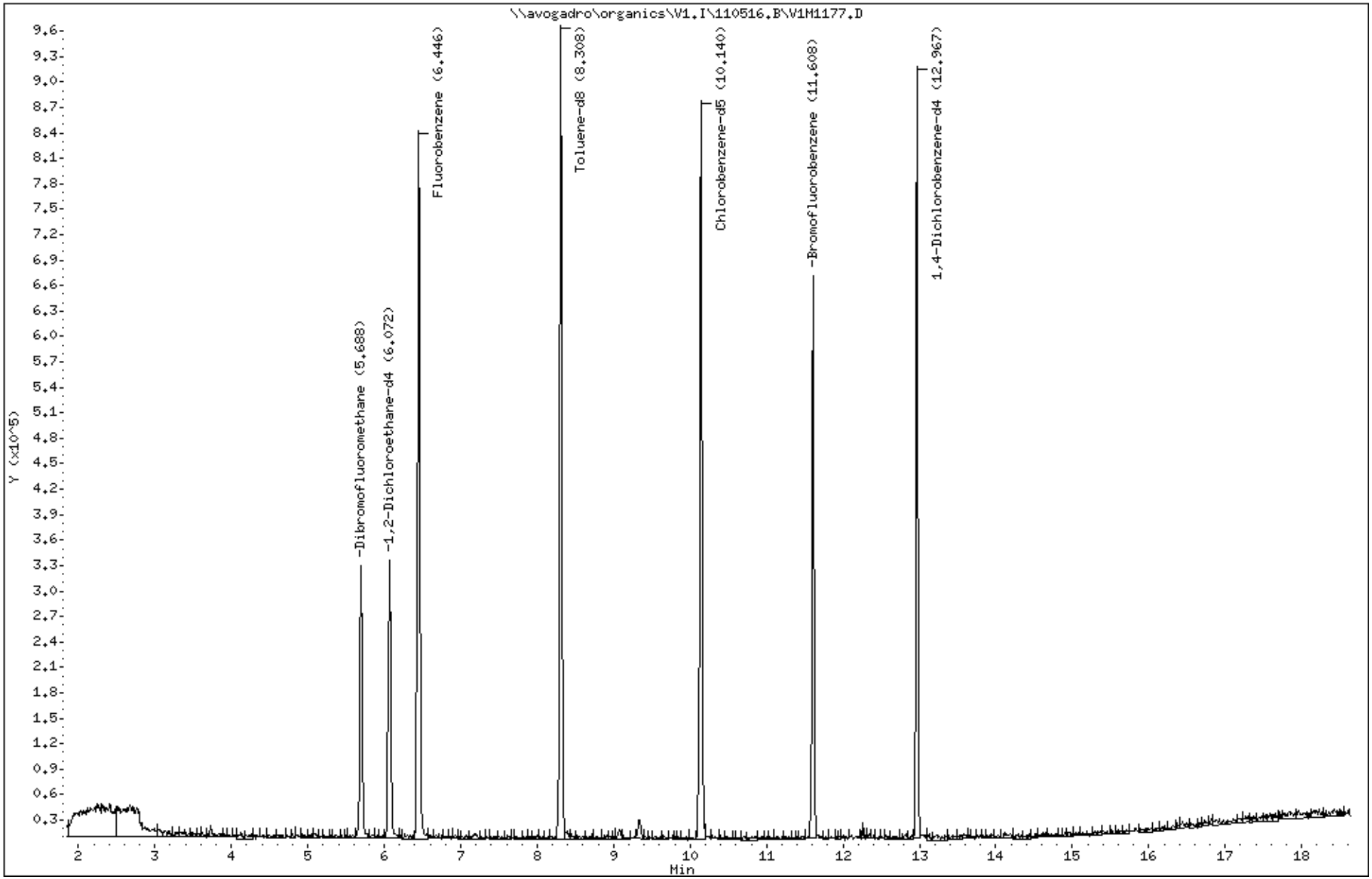
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Operator : SZ SRC: LIMS Inst ID: V1.i
Smp Info : 5ML,K0834-11A,,59186
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\V1.I\110516.B\v18260Gadd.m
Meth Date : 17-May-2011 11:20 vbrizard Quant Type: ISTD
Cal Date : 05-MAY-2011 12:19 Cal File: V1M1016.D
Als bottle: 44
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
$ 36 Dibromofluoromethane	113	5.688	5.701	(0.882)	253145	53.1440	53
$ 42 1,2-Dichloroethane-d4	102	6.072	6.076	(0.942)	50495	51.3516	51
* 46 Fluorobenzene	96	6.446	6.450	(1.000)	806965	50.0000	
$ 58 Toluene-d8	98	8.308	8.302	(0.819)	708896	49.3494	49
* 68 Chlorobenzene-d5	117	10.140	10.134	(1.000)	595807	50.0000	
$ 79 Bromofluorobenzene	95	11.607	11.591	(1.145)	273162	46.0869	46
* 92 1,4-Dichlorobenzene-d4	152	12.966	12.961	(1.000)	250276	50.0000	

Data File: \\avogadro\organics\V1.I\110516.B\V1M1177.D
Date : 16-MAY-2011 16:37
Client ID: SL-MW-3B
Instrument: V1.i
Sample Info: 5ML,K0834-11A,,59186
Purge Volume: 5.0
Operator: SZ SRC: LIMS
Column phase: DB-624
Column diameter: 0.25



1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-MW-4

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0834-12A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1178.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/13/2011

% Moisture: not dec. Date Analyzed: 05/16/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-MW-4

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0834-12A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1178.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/13/2011

% Moisture: not dec. Date Analyzed: 05/16/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U

Data File: \\avogadro\organics\V1.I\110516.B\V1M1178.D
Report Date: 17-May-2011 11:36

Mitkem Laboratories

Method 8260 Water and Medium Soil

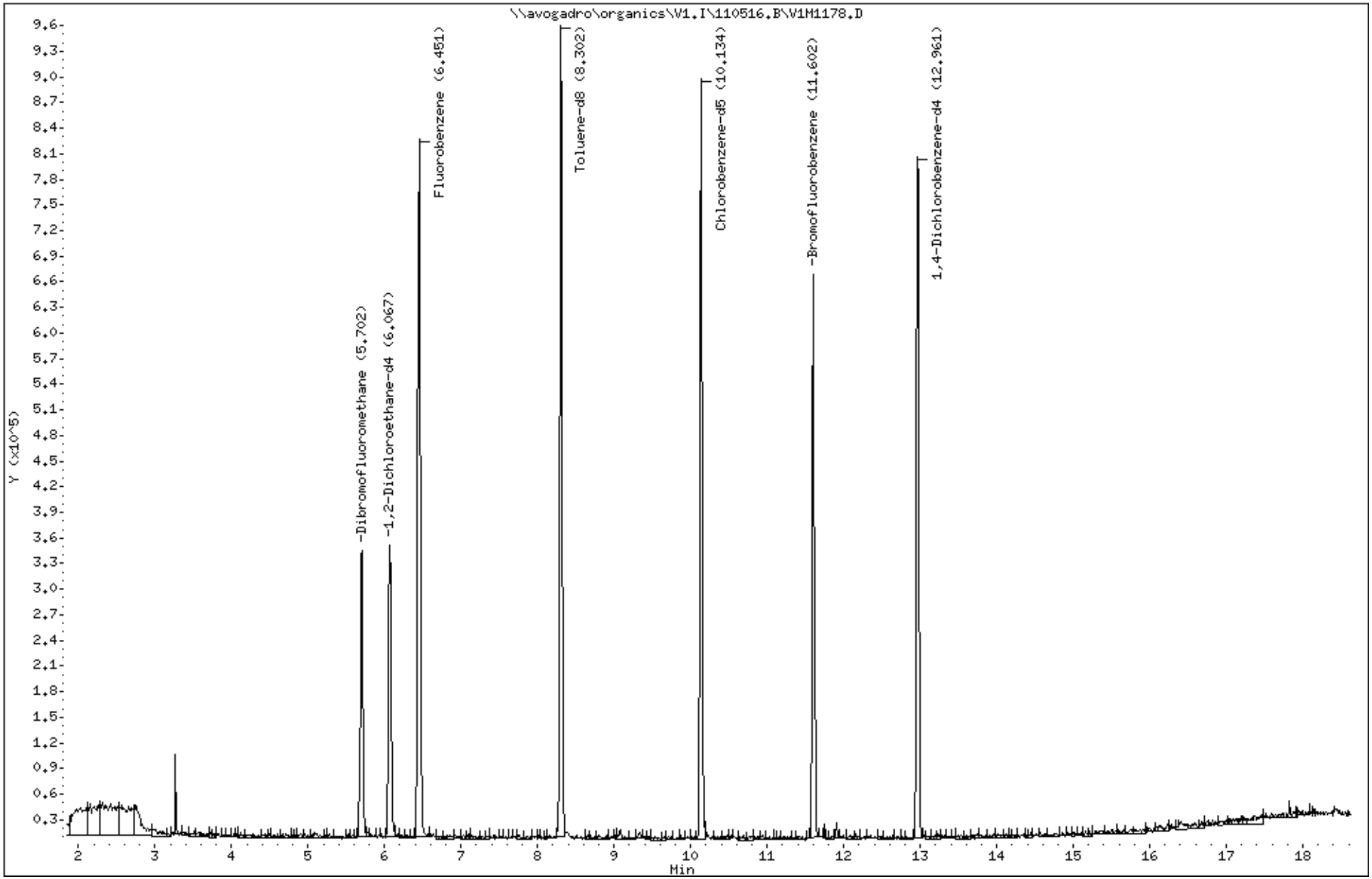
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Inj Date : 16-MAY-2011 17:03
Operator : SZ SRC: LIMS Inst ID: V1.i
Smp Info : 5ML,K0834-12A,,59186
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\V1.I\110516.B\v18260Gadd.m
Meth Date : 17-May-2011 11:20 vbrizard Quant Type: ISTD
Cal Date : 05-MAY-2011 12:19 Cal File: V1M1016.D
Als bottle: 45
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
$ 36 Dibromofluoromethane	113	5.692	5.701	(0.882)	248983	52.2490	52
$ 42 1,2-Dichloroethane-d4	102	6.076	6.076	(0.942)	49864	50.6892	51
* 46 Fluorobenzene	96	6.450	6.450	(1.000)	807293	50.0000	
$ 58 Toluene-d8	98	8.302	8.302	(0.819)	711809	50.7714	51
* 68 Chlorobenzene-d5	117	10.134	10.134	(1.000)	581500	50.0000	
$ 79 Bromofluorobenzene	95	11.602	11.591	(1.145)	275966	47.7055	48
* 92 1,4-Dichlorobenzene-d4	152	12.961	12.961	(1.000)	242897	50.0000	

Data File: \\avogadro\organics\V1.I\110516.B\V1M1178.D
Date : 16-MAY-2011 17:03
Client ID: SL-MW-4
Instrument: V1.i
Sample Info: 5ML,K0834-12A,,59186
Purge Volume: 5.0
Operator: SZ SRC: LIMS
Column phase: DB-624
Column diameter: 0.25



1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-MW-6A

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0834-13A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1179.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/13/2011

% Moisture: not dec. Date Analyzed: 05/16/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-MW-6A

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0834-13A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1179.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/13/2011

% Moisture: not dec. Date Analyzed: 05/16/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U

Data File: \\avogadro\organics\V1.I\110516.B\V1M1179.D
Report Date: 17-May-2011 11:36

Mitkem Laboratories

Method 8260 Water and Medium Soil

Data file : \\avogadro\organics\V1.I\110516.B\V1M1179.D
Lab Smp Id: K0834-13A Client Smp ID: SL-MW-6A
Inj Date : 16-MAY-2011 17:29
Operator : SZ SRC: LIMS Inst ID: V1.i
Smp Info : 5ML,K0834-13A,,59186
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\V1.I\110516.B\v18260Gadd.m
Meth Date : 17-May-2011 11:20 vbrizard Quant Type: ISTD
Cal Date : 05-MAY-2011 12:19 Cal File: V1M1016.D
Als bottle: 46
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.14

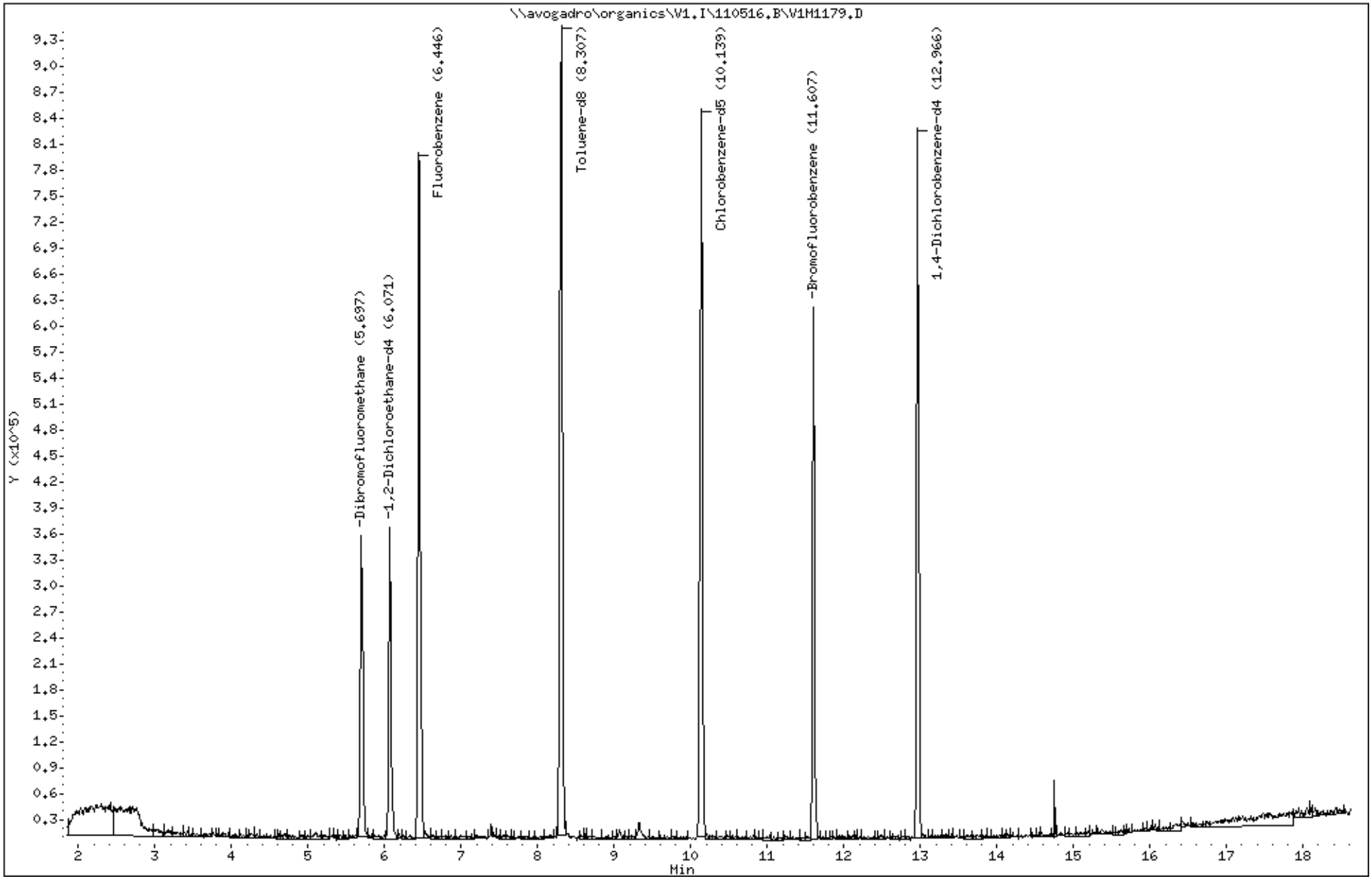
Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
$ 36 Dibromofluoromethane	113	5.697	5.701	(0.884)	256172	54.3406	54
$ 42 1,2-Dichloroethane-d4	102	6.071	6.076	(0.942)	49191	50.5474	50
* 46 Fluorobenzene	96	6.445	6.450	(1.000)	798632	50.0000	
$ 58 Toluene-d8	98	8.307	8.302	(0.819)	689563	48.7144	49
* 68 Chlorobenzene-d5	117	10.139	10.134	(1.000)	587113	50.0000	
$ 79 Bromofluorobenzene	95	11.606	11.591	(1.145)	280474	48.0213	48
* 92 1,4-Dichlorobenzene-d4	152	12.966	12.961	(1.000)	243999	50.0000	

Data File: \\avogadro\organics\V1.I\110516.B\V1M1179.D
Date : 16-MAY-2011 17:29
Client ID: SL-MW-6A
Sample Info: 5ML,K0834-13A,,59186
Purge Volume: 5.0
Column phase: DB-624

Instrument: V1.i
Operator: SZ SRC: LIMS
Column diameter: 0.25



1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-MW-6B

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0834-14A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1180.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/13/2011

% Moisture: not dec. Date Analyzed: 05/16/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	44	
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	7.3	
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-MW-6B

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0834-14A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1180.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/13/2011

% Moisture: not dec. Date Analyzed: 05/16/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
127-18-4	Tetrachloroethene	150	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U

Data File: \\avogadro\organics\V1.I\110516.B\V1M1180.D
Report Date: 17-May-2011 11:36

Mitkem Laboratories

Method 8260 Water and Medium Soil

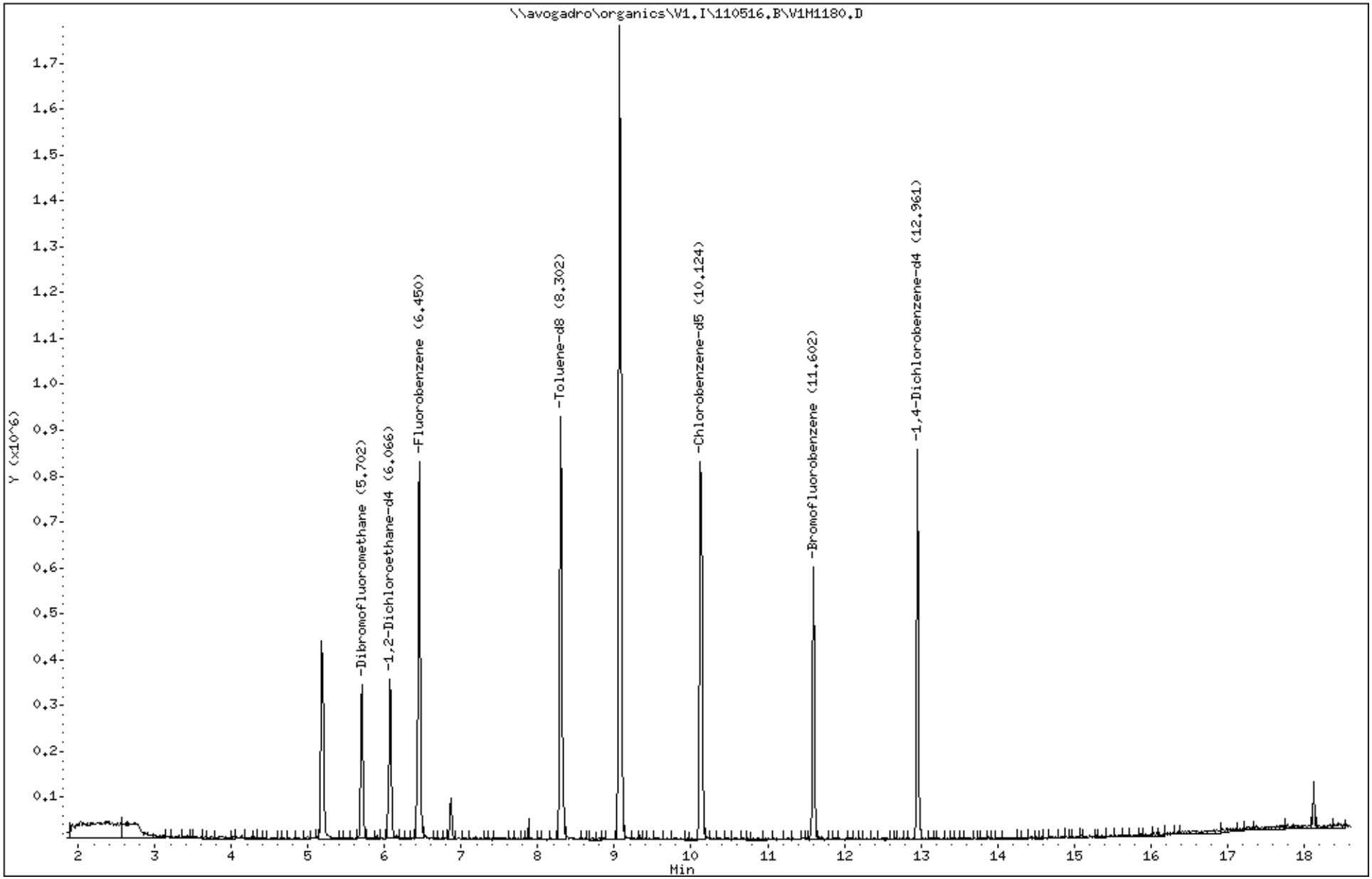
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Inj Date : 16-MAY-2011 17:55
Operator : SZ SRC: LIMS Inst ID: V1.i
Smp Info : 5ML,K0834-14A,,59186
Misc Info :
Comment   :
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Cal Date : 05-MAY-2011 12:19 Cal File: V1M1016.D
Als bottle: 47
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	28 cis-1,2-Dichloroethene	96	5.179	5.190	(0.803)	195708	43.8748	44
$	36 Dibromofluoromethane	113	5.701	5.701	(0.884)	242903	51.6175	52
$	42 1,2-Dichloroethane-d4	102	6.075	6.076	(0.942)	49406	50.8586	51
*	46 Fluorobenzene	96	6.450	6.450	(1.000)	797215	50.0000	
	47 Trichloroethene	130	6.863	6.864	(1.064)	32271	7.34337	7
$	58 Toluene-d8	98	8.301	8.302	(0.820)	695127	50.0625	50
	63 Tetrachloroethene	164	9.070	9.070	(0.896)	454645	148.200	150
*	68 Chlorobenzene-d5	117	10.124	10.134	(1.000)	575913	50.0000	
$	79 Bromofluorobenzene	95	11.591	11.591	(1.145)	274241	47.8672	48
*	92 1,4-Dichlorobenzene-d4	152	12.960	12.961	(1.000)	248948	50.0000	

Data File: \\avogadro\organics\V1.I\110516.B\V1M1180.D
Date : 16-MAY-2011 17:55
Client ID: SL-MW-6B
Instrument: V1.i
Sample Info: 5ML,K0834-14A,,59186
Purge Volume: 5.0
Operator: SZ SRC: LIMS
Column phase: DB-624
Column diameter: 0.25



Data File: \\avogadro\organics\V1.I\110516.B\V1M1180.D

Date : 16-MAY-2011 17:55

Client ID: SL-MW-6B

Instrument: V1.i

Sample Info: 5ML,K0834-14A,,59186

Purge Volume: 5.0

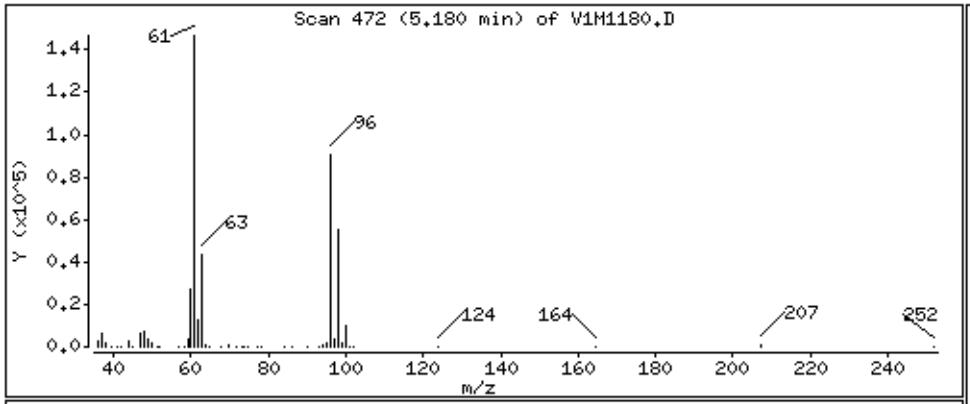
Operator: SZ SRC: LIMS

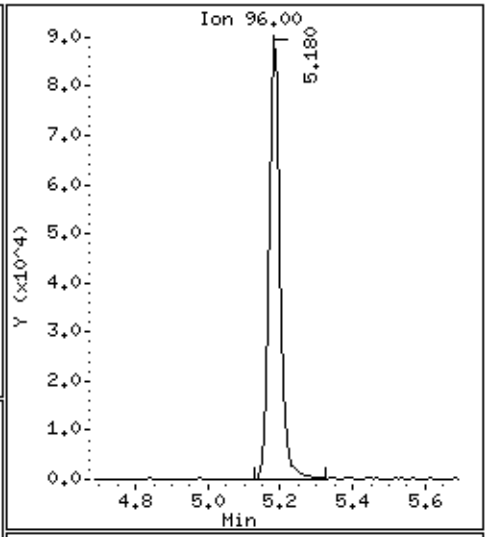
Column phase: DB-624

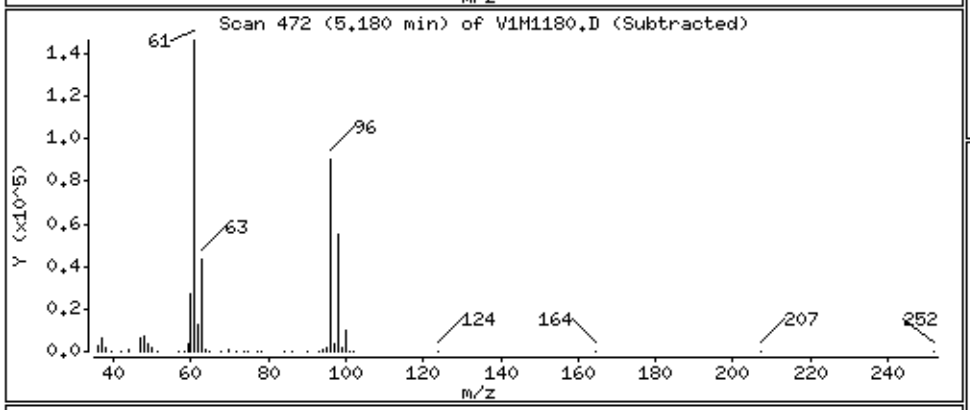
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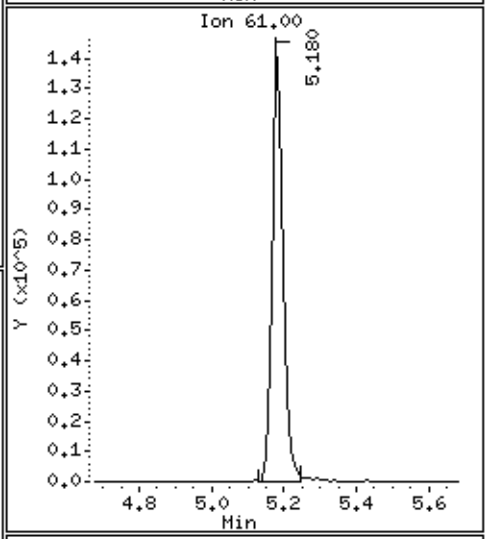
28 cis-1,2-Dichloroethene

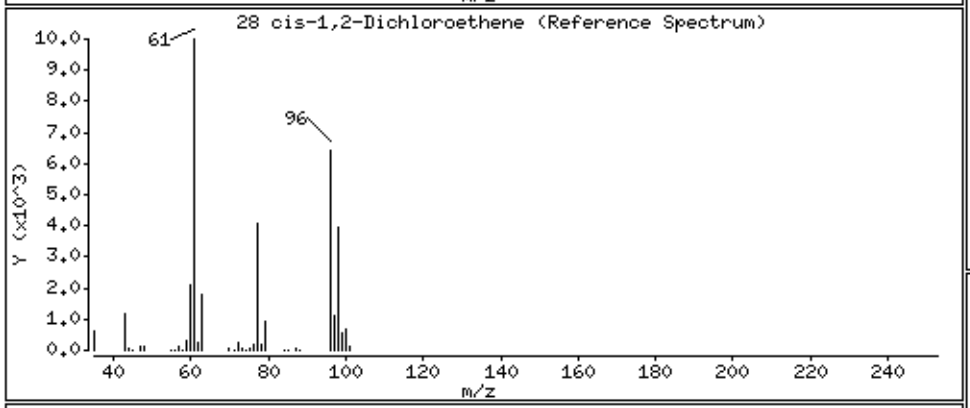
Concentration: 44 ug/L

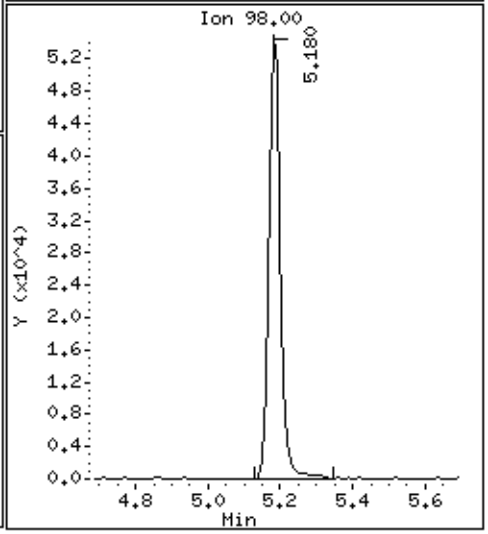


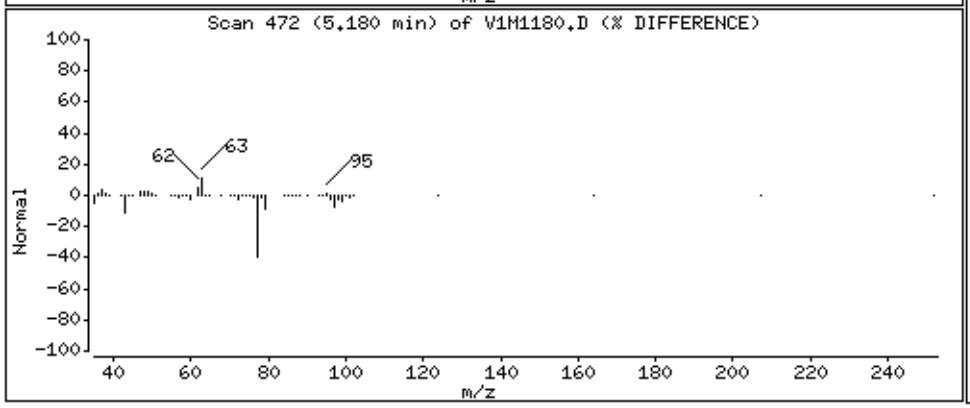












Data File: \\avogadro\organics\V1.I\110516.B\V1M1180.D

Date : 16-MAY-2011 17:55

Client ID: SL-MW-6B

Instrument: V1.i

Sample Info: 5ML,K0834-14A,,59186

Purge Volume: 5.0

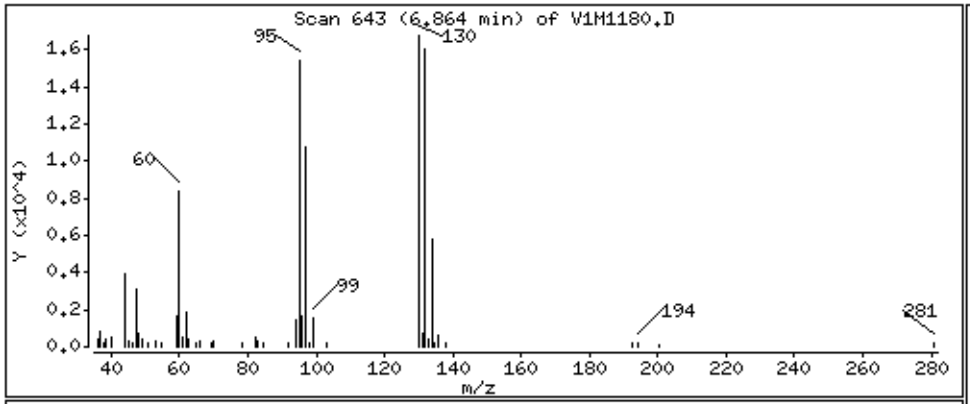
Operator: SZ SRC: LIMS

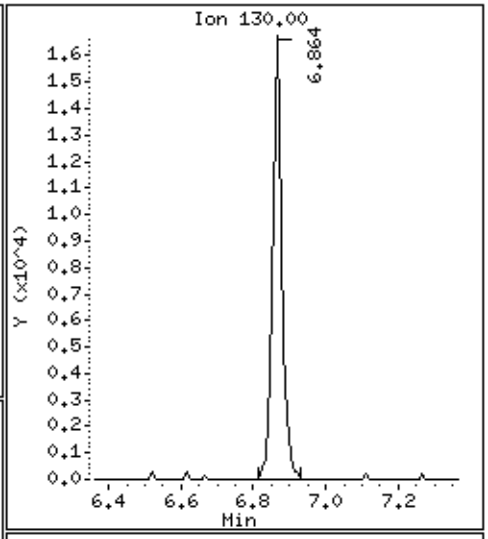
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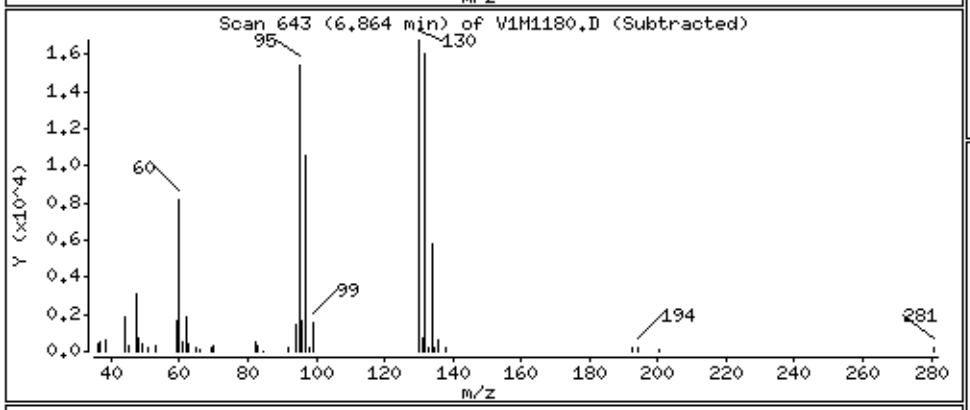
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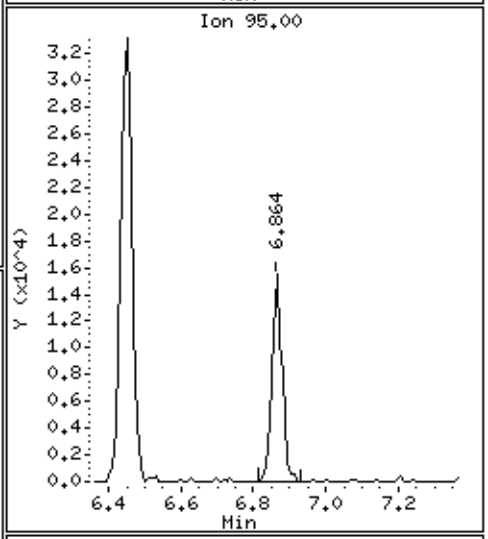
47 Trichloroethene

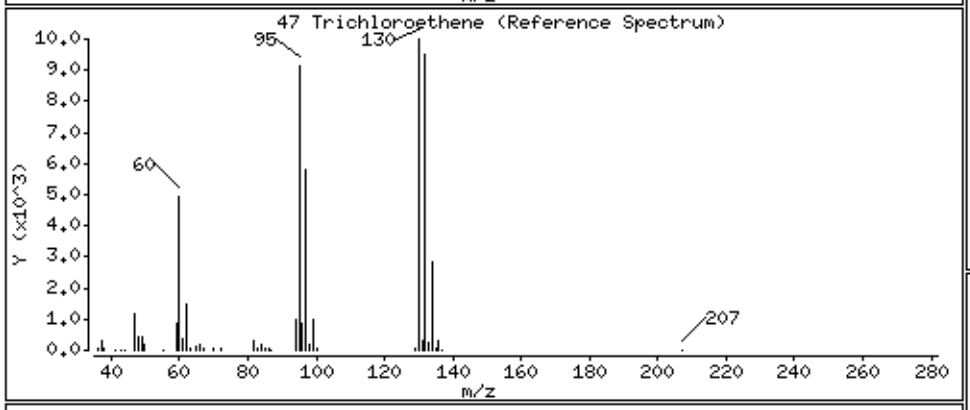
Concentration: 7 ug/L

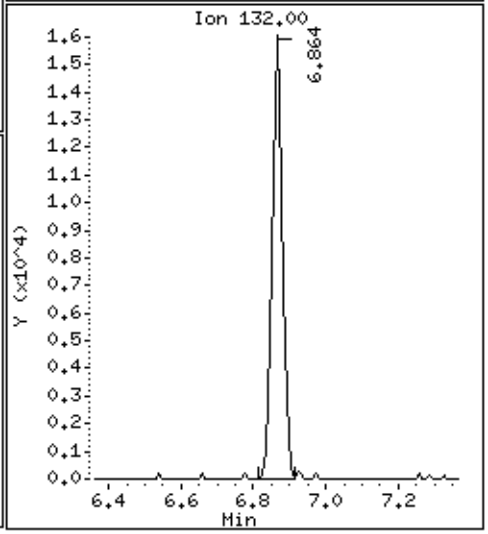


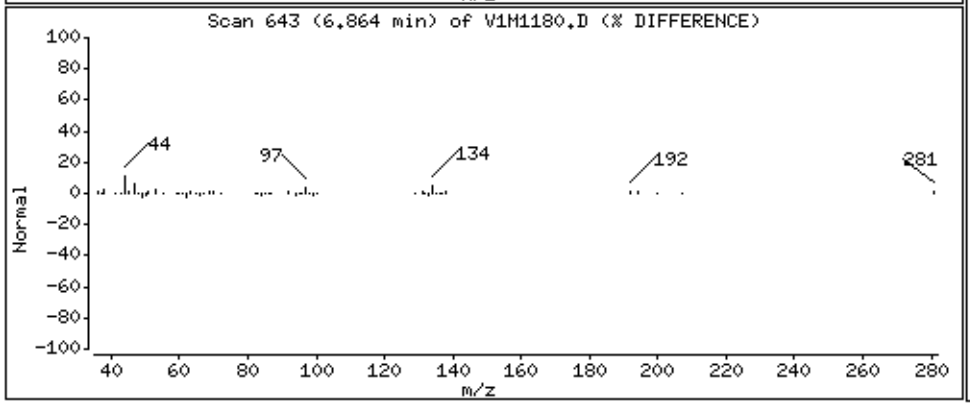












Data File: \\avogadro\organics\V1.I\110516.B\V1M1180.D

Date : 16-MAY-2011 17:55

Client ID: SL-MW-6B

Instrument: V1.i

Sample Info: 5ML,K0834-14A,,59186

Purge Volume: 5.0

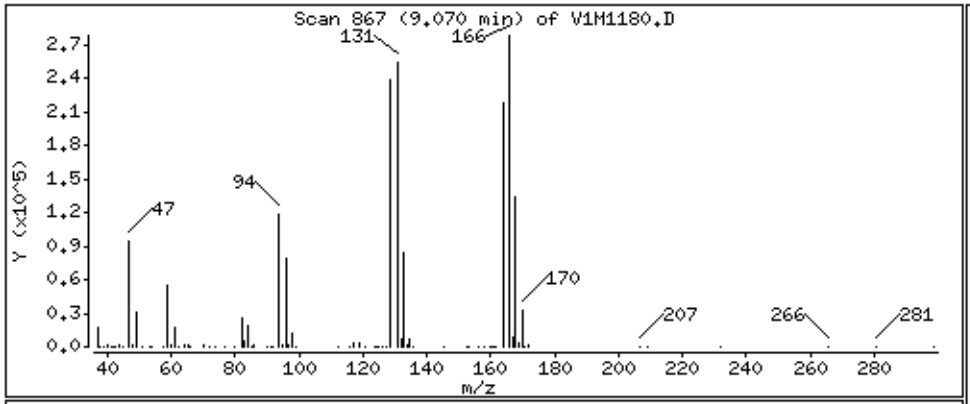
Operator: SZ SRC: LIMS

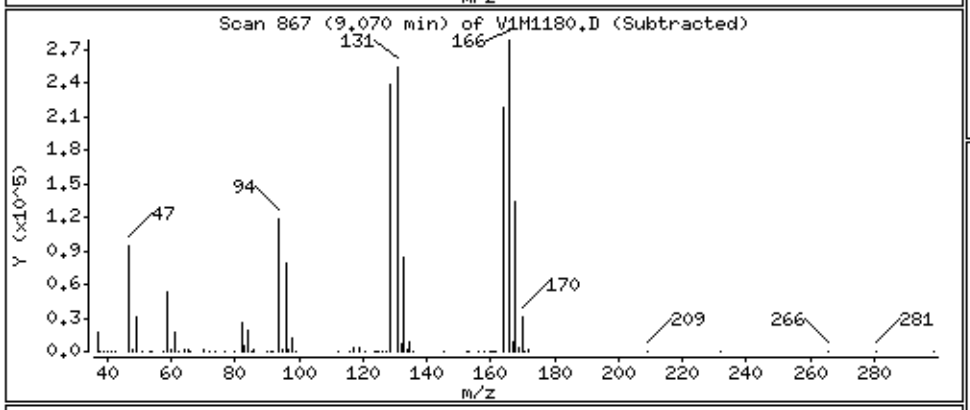
Column phase: DB-624

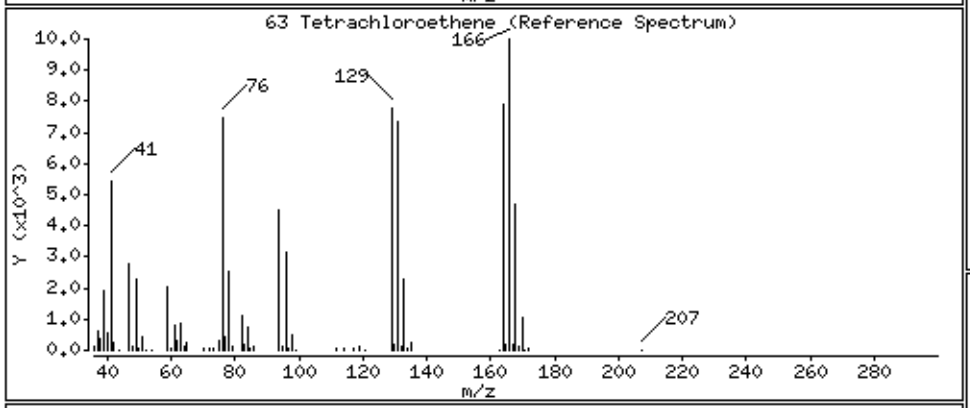
Column diameter: 0.25

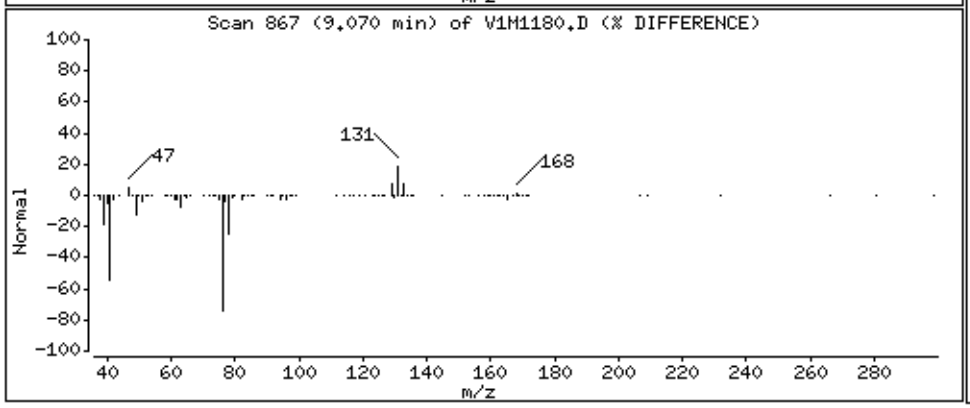
63 Tetrachloroethene

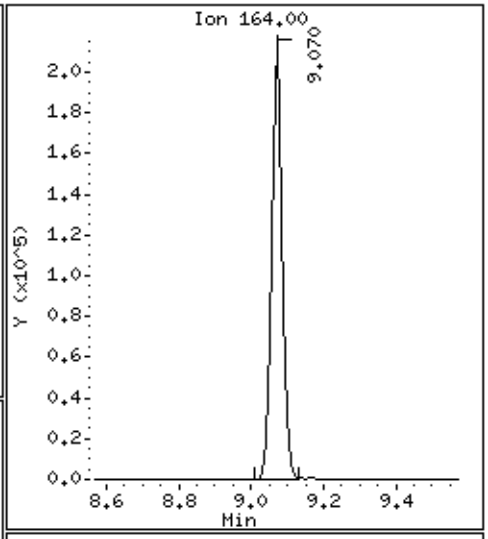
Concentration: 150 ug/L

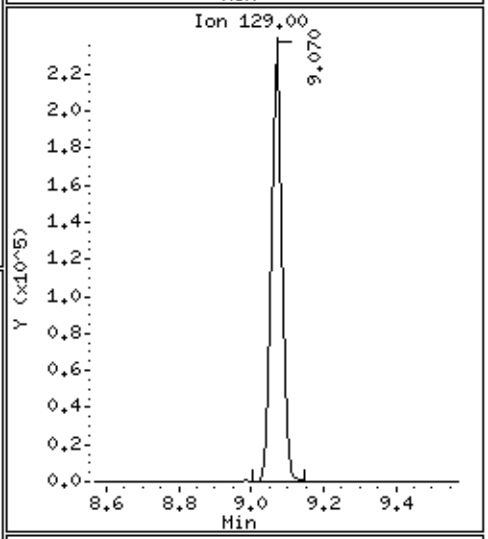


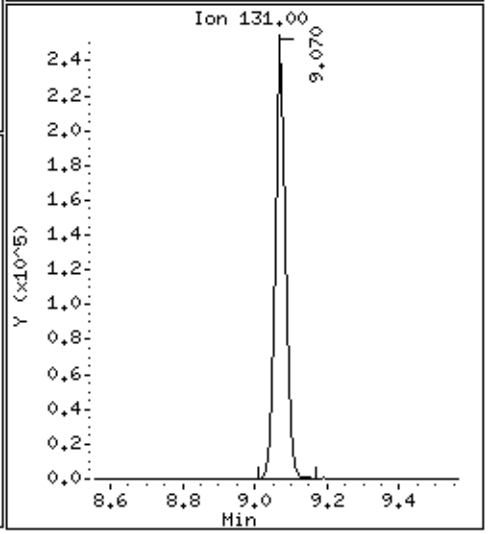












1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-MW-5

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0834-15A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1181.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/13/2011

% Moisture: not dec. Date Analyzed: 05/16/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	1.5	J
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-MW-5

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0834-15A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1181.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/13/2011

% Moisture: not dec. Date Analyzed: 05/16/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U

Data File: \\avogadro\organics\V1.I\110516.B\V1M1181.D
Report Date: 17-May-2011 11:36

Mitkem Laboratories

Method 8260 Water and Medium Soil

Data file : \\avogadro\organics\V1.I\110516.B\V1M1181.D
Lab Smp Id: K0834-15A Client Smp ID: SL-MW-5
Inj Date : 16-MAY-2011 18:21
Operator : SZ SRC: LIMS Inst ID: V1.i
Smp Info : 5ML,K0834-15A,,59186
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\V1.I\110516.B\v18260Gadd.m
Meth Date : 17-May-2011 11:20 vbrizard Quant Type: ISTD
Cal Date : 05-MAY-2011 12:19 Cal File: V1M1016.D
Als bottle: 48
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

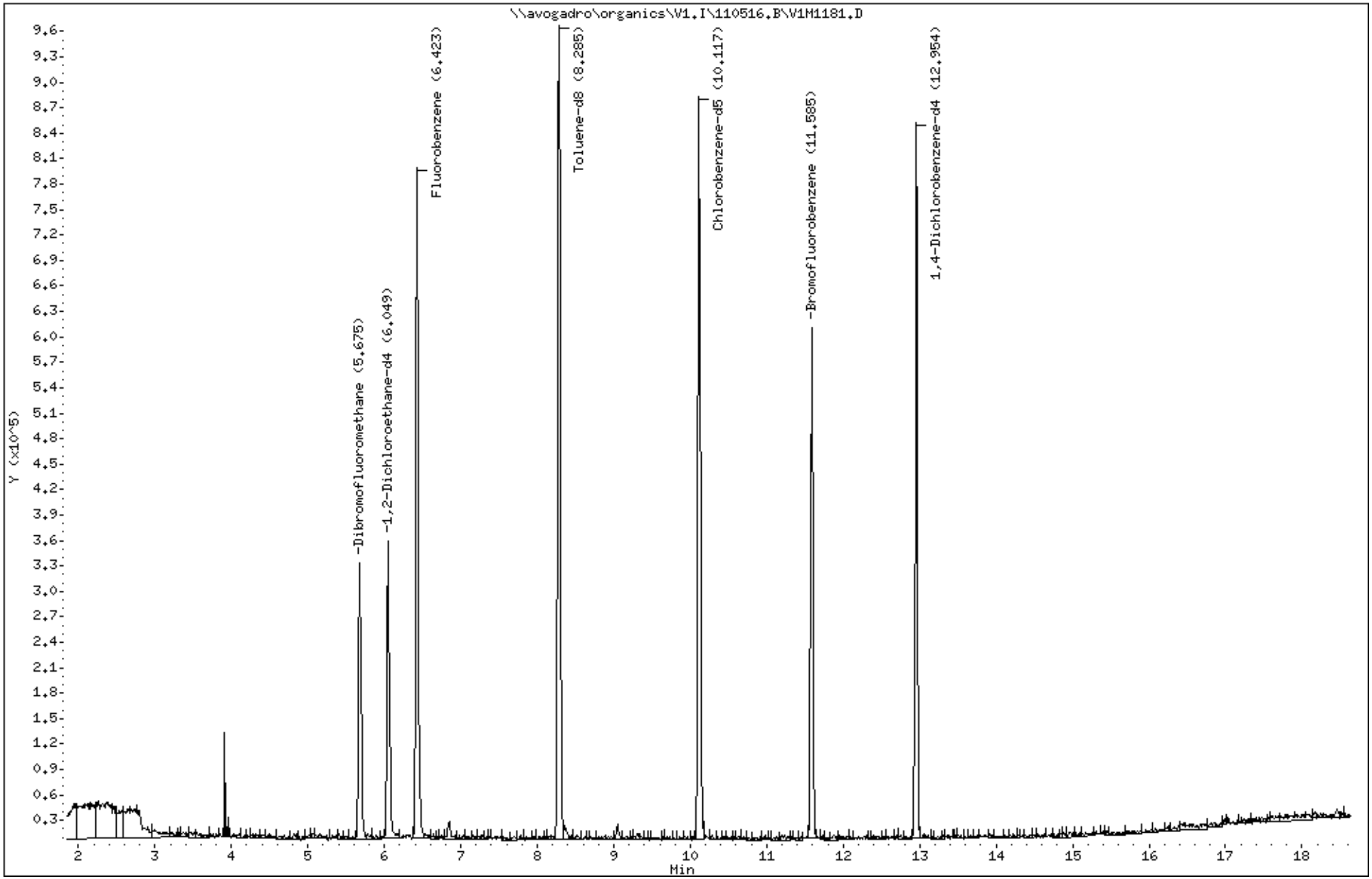
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
$	36 Dibromofluoromethane	113	5.684	5.701	(0.885)	251611	51.8598	52
$	42 1,2-Dichloroethane-d4	102	6.049	6.076	(0.942)	51304	51.2239	51
*	46 Fluorobenzene	96	6.423	6.450	(1.000)	821937	50.0000	
	47 Trichloroethene	130	6.846	6.864	(1.066)	6746	1.48890	1(a)
$	58 Toluene-d8	98	8.284	8.302	(0.819)	696968	49.6755	50
*	68 Chlorobenzene-d5	117	10.117	10.134	(1.000)	581937	50.0000	
$	79 Bromofluorobenzene	95	11.584	11.591	(1.145)	274555	47.4260	47
*	92 1,4-Dichlorobenzene-d4	152	12.953	12.961	(1.000)	245863	50.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\avogadro\organics\V1.I\110516.B\V1M1181.D
Date : 16-MAY-2011 18:21
Client ID: SL-MW-5
Instrument: V1.i
Sample Info: 5ML,K0834-15A,,59186
Purge Volume: 5.0
Operator: SZ SRC: LIMS
Column phase: DB-624
Column diameter: 0.25



Data File: \\avogadro\organics\V1.I\110516.B\V1M1181.D

Date : 16-MAY-2011 18:21

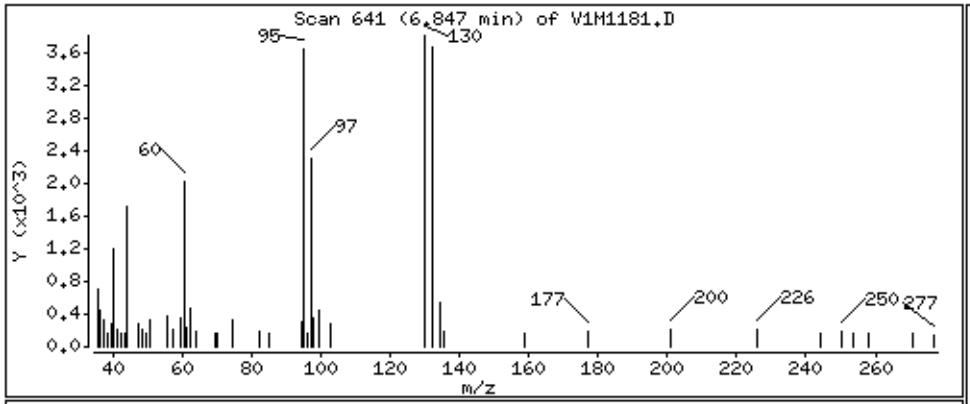
Client ID: SL-MW-5 Instrument: V1.i

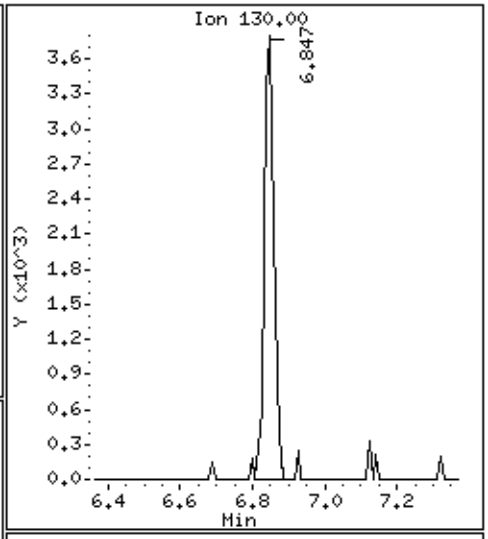
Sample Info: 5ML,K0834-15A,,59186

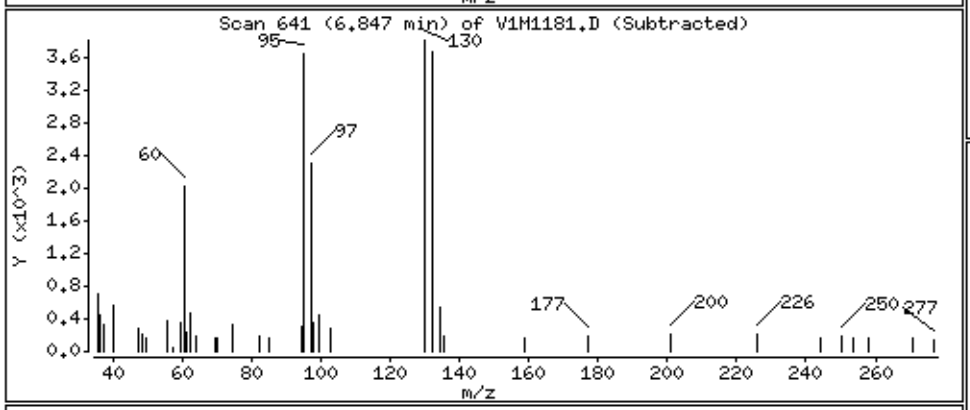
Purge Volume: 5.0 Operator: SZ SRC: LIMS

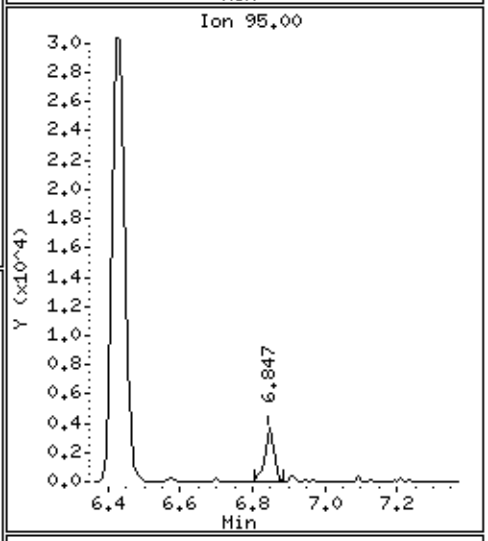
Column phase: DB-624 Column diameter: 0.25

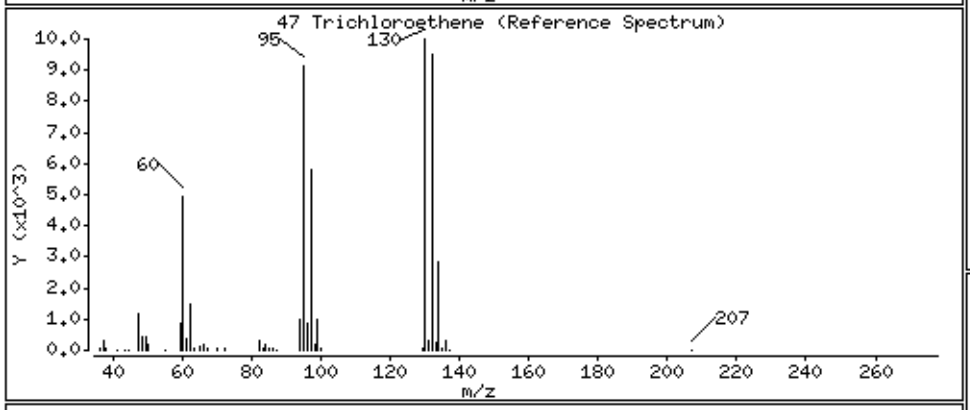
47 Trichloroethene Concentration: 1 ug/L

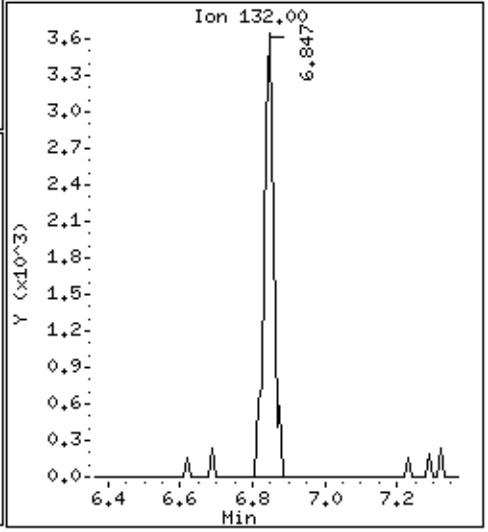


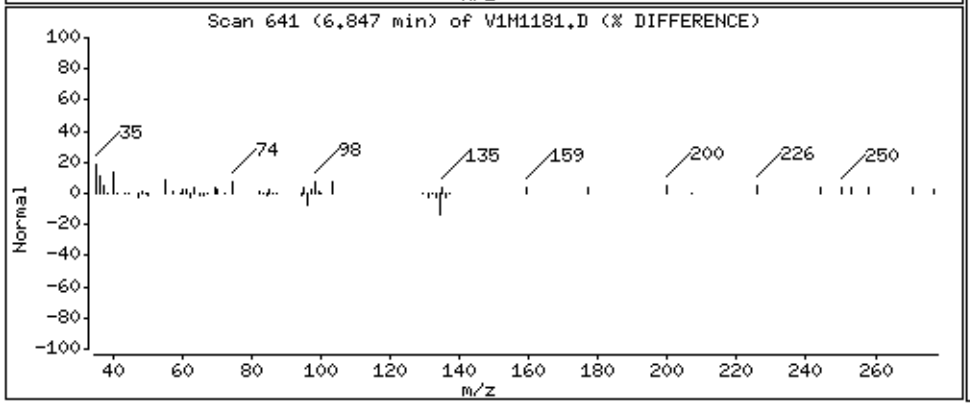












6A - FORM VI VOA-1

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Instrument ID: V1 Calibration Date(s): 05/05/2011 05/05/2011

Heated Purge: (Y/N) N Calibration Time(s): 10:41 12:45

Purge Volume: 5.0 (mL)

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID: RRF005 = V1M1013.D RRF020 = V1M1014.D

RRF050 = V1M1015.D RRF100 = V1M1016.D RRF200 = V1M1017.D

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	$\overline{RRF}$	%RSD
Dichlorodifluoromethane	0.257	0.286	0.195	0.235	0.253	0.245	13.7
Chloromethane	0.439	0.514	0.425	0.418	0.447	0.449	8.5
Vinyl chloride	0.335	0.355	0.273	0.313	0.335	0.322	9.6
Bromomethane	0.217	0.216	0.176	0.193	0.202	0.201	8.4
Chloroethane	0.139	0.194	0.153	0.165	0.183	0.167	13.2
Trichlorofluoromethane	0.314	0.363	0.272	0.317	0.343	0.322	10.7
1,1-Dichloroethene	0.255	0.269	0.223	0.254	0.280	0.256	8.4
Acetone	0.068	0.051	0.051	0.051	0.050	0.054	14.4
Iodomethane	0.429	0.440	0.391	0.444	0.481	0.437	7.4
Carbon disulfide	0.836	0.940	0.726	0.829	0.882	0.843	9.3
Methylene chloride	0.262	0.275	0.236	0.252	0.269	0.259	6.0
trans-1,2-Dichloroethene	0.275	0.277	0.228	0.255	0.272	0.261	7.8
Methyl tert-butyl ether	0.595	0.641	0.584	0.615	0.622	0.611	3.7
1,1-Dichloroethane	0.586	0.601	0.477	0.528	0.541	0.547	9.0
Vinyl acetate	1.631	1.753	1.571	1.651	1.662	1.653	4.0
2-Butanone	0.034	0.041	0.039	0.039	0.037	0.038	7.3
cis-1,2-Dichloroethene	0.289	0.298	0.246	0.275	0.291	0.280	7.4
2,2-Dichloropropane	0.173	0.206	0.155	0.167	0.163	0.173	11.4
Bromochloromethane	0.146	0.166	0.148	0.164	0.166	0.158	6.4
Chloroform	0.438	0.467	0.396	0.425	0.439	0.433	6.0
1,1,1-Trichloroethane	0.278	0.302	0.244	0.270	0.268	0.273	7.7
1,1-Dichloropropene	0.104	0.128	0.102	0.119	0.129	0.116	11.2
Carbon tetrachloride	0.268	0.317	0.251	0.287	0.300	0.285	9.1
1,2-Dichloroethane	0.384	0.408	0.349	0.367	0.359	0.373	6.2
Benzene	0.966	1.022	0.829	0.920	0.960	0.939	7.6
Trichloroethene	0.306	0.287	0.237	0.265	0.283	0.276	9.5
1,2-Dichloropropane	0.322	0.337	0.287	0.304	0.321	0.314	6.1
Dibromomethane	0.181	0.196	0.169	0.178	0.184	0.182	5.3
Bromodichloromethane	0.331	0.352	0.301	0.329	0.341	0.331	5.8
cis-1,3-Dichloropropene	0.393	0.456	0.407	0.437	0.460	0.431	6.9
4-Methyl-2-pentanone	0.432	0.455	0.458	0.476	0.480	0.460	4.2
Toluene	0.973	1.020	0.824	0.925	0.967	0.942	7.9
trans-1,3-Dichloropropene	0.362	0.410	0.375	0.400	0.410	0.391	5.5
1,1,2-Trichloroethane	0.208	0.230	0.210	0.228	0.236	0.222	5.7
1,3-Dichloropropane	0.570	0.566	0.524	0.546	0.572	0.555	3.7
Tetrachloroethene	0.289	0.284	0.224	0.256	0.279	0.266	10.1
2-Hexanone	0.456	0.467	0.480	0.507	0.516	0.485	5.2
Dibromochloromethane	0.376	0.444	0.401	0.424	0.460	0.421	8.0
1,2-Dibromoethane	0.346	0.359	0.358	0.379	0.401	0.369	5.9

6B - FORM VI VOA-2

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Instrument ID: V1 Calibration Date(s): 05/05/2011 05/05/2011

Heated Purge: (Y/N) N Calibration Time(s): 10:41 12:45

Purge Volume: 5.0 (mL)

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID: RRF005 = V1M1013.D RRF020 = V1M1014.D

RRF050 = V1M1015.D RRF100 = V1M1016.D RRF200 = V1M1017.D

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	$\overline{RRF}$	%RSD
Chlorobenzene	1.011	0.983	0.810	0.909	0.974	0.938	8.6
1,1,1,2-Tetrachloroethane	0.367	0.389	0.329	0.374	0.392	0.370	6.8
Ethylbenzene	0.467	0.494	0.401	0.459	0.507	0.466	8.8
m,p-Xylene	0.585	0.620	0.503	0.563	0.611	0.576	8.1
o-Xylene	0.544	0.585	0.499	0.556	0.603	0.557	7.2
Xylene (Total)	0.572	0.608	0.502	0.561	0.608	0.570	7.7
Styrene	0.891	0.954	0.847	0.939	1.020	0.930	7.0
Bromoform	0.173	0.230	0.240	0.256	0.280	0.236	16.8
Isopropylbenzene	1.209	1.430	1.188	1.337	1.444	1.322	9.1
1,1,2,2-Tetrachloroethane	0.861	0.895	0.838	0.865	0.890	0.870	2.7
Bromobenzene	0.819	0.822	0.691	0.744	0.804	0.776	7.3
1,2,3-Trichloropropane	0.996	0.992	0.963	1.021	1.107	1.016	5.4
n-Propylbenzene	0.680	0.731	0.614	0.706	0.764	0.699	8.1
2-Chlorotoluene	0.707	0.764	0.627	0.707	0.783	0.718	8.5
1,3,5-Trimethylbenzene	2.077	2.354	1.941	2.138	2.260	2.154	7.4
4-Chlorotoluene	0.758	0.816	0.684	0.749	0.801	0.762	6.8
tert-Butylbenzene	2.258	2.377	2.028	2.254	2.287	2.241	5.7
1,2,4-Trimethylbenzene	2.200	2.375	2.011	2.255	2.317	2.232	6.3
sec-Butylbenzene	2.388	2.661	2.306	2.570	2.728	2.531	7.1
4-Isopropyltoluene	1.982	2.166	1.847	2.119	2.213	2.065	7.2
1,3-Dichlorobenzene	1.278	1.421	1.195	1.296	1.403	1.319	7.1
1,4-Dichlorobenzene	1.334	1.415	1.219	1.350	1.447	1.353	6.5
n-Butylbenzene	1.600	1.840	1.585	1.772	1.834	1.726	7.2
1,2-Dichlorobenzene	1.244	1.331	1.210	1.274	1.332	1.278	4.2
1,2-Dibromo-3-chloropropane	0.113	0.119	0.116	0.122	0.138	0.121	7.9
1,2,4-Trichlorobenzene	0.442	0.547	0.512	0.570	0.615	0.537	12.1
Hexachlorobutadiene	0.191	0.234	0.191	0.211	0.212	0.208	8.7
1,2,3-Trichlorobenzene	0.316	0.406	0.437	0.468	0.513	0.428	17.3
Naphthalene	0.950	1.295	1.471	1.631	1.830	1.435	23.4

6C - FORM VI VOA-3

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Instrument ID: V1 Calibration Date(s): 05/05/2011 05/05/2011

Heated Purge: (Y/N) N Calibration Time(s): 10:41 12:45

Purge Volume: 5.0 (mL)

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID: RRF005 = V1M1013.D RRF020 = V1M1014.D

RRF050 = V1M1015.D RRF100 = V1M1016.D RRF200 = V1M1017.D

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	$\overline{RRF}$	%RSD
Dibromofluoromethane	0.296	0.301	0.294	0.293	0.293	0.295	1.1
1,2-Dichloroethane-d4	0.059	0.062	0.062	0.063	0.059	0.061	3.1
Toluene-d8	1.225	1.191	1.187	1.193	1.230	1.205	1.7
Bromofluorobenzene	0.489	0.486	0.499	0.493	0.520	0.497	2.7

Data File: \\Avogadro\Organics\V1.I\110505.B\V1M1013.D
Report Date: 12-May-2011 15:37

Mitkem Laboratories

Method 8260 Water and Medium Soil

Data file : \\Avogadro\Organics\V1.I\110505.B\V1M1013.D
Lab Smp Id: VSTD0051M Client Smp ID: VSTD0051M
Inj Date : 05-MAY-2011 10:41
Operator : SZ SRC: SZ Inst ID: V1.i
Smp Info : 5ML,VSTD0051M,VSTD0051M
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\V1.I\110505.B\v18260Gadd.m
Meth Date : 12-May-2011 15:37 mscarpaci Quant Type: ISTD
Cal Date : 05-MAY-2011 12:19 Cal File: V1M1016.D
Als bottle: 30 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: TARGET104

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1	Dichlorodifluoromethane	85	1.697	1.707	(0.264)	27173	5.00000	5
2	Freon114	85	1.855	1.845	(0.288)	23594	5.00000	5
3	Chloromethane	50	1.894	1.904	(0.294)	46454	5.00000	5
4	Vinyl Chloride	62	2.022	2.023	(0.314)	35376	5.00000	5
5	Bromomethane	94	2.416	2.407	(0.376)	22895	5.00000	5
6	Chloroethane	64	2.515	2.515	(0.391)	14689	5.00000	4(a)
7	Trichlorofluoromethane	101	2.791	2.791	(0.434)	33167	5.00000	5
126	Ethanol	46	2.978	2.978	(0.463)	16922	500.000	370(aA)
8	Ether	59	3.086	3.086	(0.480)	29334	5.00000	5
9	Acrolein	56	3.214	3.214	(0.500)	24517	25.0000	22(a)
10	1,1-Dichloroethene	96	3.352	3.352	(0.521)	26984	5.00000	5
11	1,1,2-Trichloro-1,2,2-Trifluo	101	3.382	3.352	(0.526)	16025	5.00000	4(aQ)
12	Acetone	58	3.391	3.372	(0.527)	7198	5.00000	6(Q)
13	Iodomethane	142	3.510	3.510	(0.545)	45328	5.00000	5
14	Carbon Disulfide	76	3.569	3.569	(0.555)	88369	5.00000	5
15	Acetonitrile	41	3.697	3.707	(0.575)	139560	50.0000	48(a)
16	Allyl Chloride	39	3.697	3.707	(0.575)	61117	5.00000	5(Q)
17	Methyl Acetate	43	3.726	3.727	(0.579)	42938	5.00000	5
19	tert-Butanol	59	3.953	3.953	(0.614)	11462	10.0000	10
18	Methylene Chloride	84	3.844	3.855	(0.597)	27748	5.00000	5
20	Acrylonitrile	53	4.081	4.081	(0.634)	14743	5.00000	5
21	trans-1,2-Dichloroethene	96	4.110	4.130	(0.639)	29032	5.00000	5

Data File: \\Avogadro\Organics\V1.I\110505.B\V1M1013.D
Report Date: 12-May-2011 15:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	22 Methyl tert-butyl ether	73	4.120	4.130	(0.640)	62894	5.00000	5
	23 1,1-Dichloroethane	63	4.554	4.564	(0.708)	61958	5.00000	5
	24 Vinyl acetate	43	4.613	4.623	(0.717)	172477	5.00000	5
	25 Diisopropyl Ether	45	4.632	4.643	(0.720)	177583	5.00000	5
	26 2-Chloro-1,3-Butadiene	53	4.652	4.672	(0.723)	52593	5.00000	5
	27 Ethyl tert-butyl ether	59	5.017	5.027	(0.780)	86552	5.00000	5
	28 cis-1,2-Dichloroethene	96	5.174	5.184	(0.804)	30578	5.00000	5
	29 2,2-Dichloropropane	77	5.184	5.184	(0.806)	18306	5.00000	5
	30 2-Butanone	72	5.184	5.194	(0.806)	3583	5.00000	4(aQ)
	32 Propionitrile	54	5.243	5.253	(0.815)	50555	50.0000	46(a)
	33 Methacrylonitrile	41	5.411	5.421	(0.841)	62997	10.0000	10
	34 Bromochloromethane	128	5.420	5.440	(0.842)	15474	5.00000	5
	31 Tetrahydrofuran	72	5.489	5.500	(0.853)	6689	10.0000	10
	35 Chloroform	83	5.519	5.529	(0.858)	46324	5.00000	5
$	36 Dibromofluoromethane	113	5.686	5.697	(0.884)	312637	50.0000	50
	37 1,1,1-Trichloroethane	97	5.726	5.736	(0.890)	29440	5.00000	5
	38 Cyclohexane	56	5.795	5.805	(0.901)	44743	5.00000	5
	39 1,1-Dichloropropene	110	5.913	5.913	(0.919)	10949	5.00000	4(aQ)
	40 Carbon Tetrachloride	117	5.913	5.923	(0.919)	28337	5.00000	5
	41 Isobutyl Alcohol	43	6.011	6.022	(0.934)	32439	100.000	77(a)
$	42 1,2-Dichloroethane-d4	102	6.051	6.071	(0.940)	62705	50.0000	49
	43 Benzene	78	6.130	6.140	(0.953)	102092	5.00000	5
	44 1,2-Dichloroethane	62	6.139	6.150	(0.954)	40587	5.00000	5
	45 tert-Amyl methyl ether	73	6.248	6.268	(0.971)	63878	5.00000	5
M	50 1,2-Dichloroethene (Total)	96				59610	10.0000	10
*	46 Fluorobenzene	96	6.435	6.445	(1.000)	1057387	50.0000	
	47 Trichloroethene	130	6.858	6.869	(1.066)	32393	5.00000	6
	48 Methylcyclohexane	83	7.085	7.095	(1.101)	29799	5.00000	5
	49 1,2-Dichloropropane	63	7.105	7.115	(1.104)	34047	5.00000	5
	51 Methyl Methacrylate	69	7.243	7.253	(1.125)	19609	5.00000	4(a)
	52 Dibromomethane	93	7.243	7.253	(1.125)	19143	5.00000	5
	53 1,4-Dioxane	88	7.272	7.272	(1.130)	1206	100.000	70(aQ)
	54 Bromodichloromethane	83	7.430	7.430	(1.155)	34999	5.00000	5
	55 2-Chloroethyl vinyl ether	63	7.784	7.785	(1.210)	8545	5.00000	5
	56 cis-1,3-Dichloropropene	75	7.962	7.972	(1.237)	41589	5.00000	4(a)
	57 4-Methyl-2-pentanone	43	8.149	8.159	(1.266)	45670	5.00000	5
$	58 Toluene-d8	98	8.296	8.307	(0.819)	889842	50.0000	51
	59 Toluene	91	8.375	8.395	(1.302)	102893	5.00000	5
	60 trans-1,3-Dichloropropene	75	8.641	8.651	(1.343)	38296	5.00000	5
	61 Ethyl Methacrylate	69	8.759	8.770	(1.361)	30978	5.00000	4(a)
	62 1,1,2-Trichloroethane	97	8.868	8.878	(1.378)	22007	5.00000	5
	63 Tetrachloroethene	164	9.065	9.075	(0.895)	21013	5.00000	5
	64 1,3-Dichloropropane	76	9.084	9.095	(0.897)	41382	5.00000	5
	65 2-Hexanone	43	9.193	9.203	(0.908)	33134	5.00000	5
	66 Dibromochloromethane	129	9.370	9.380	(0.925)	27308	5.00000	4(Ta)
	67 1,2-Dibromoethane	107	9.518	9.528	(0.940)	25124	5.00000	5(T)
	69 1-Chlorohexane	91	10.138	10.149	(1.001)	32449	5.00000	5(Q)
*	68 Chlorobenzene-d5	117	10.129	10.139	(1.000)	726252	50.0000	
	70 Chlorobenzene	112	10.158	10.178	(1.003)	73453	5.00000	5
	71 1,1,1,2-Tetrachloroethane	131	10.266	10.277	(1.014)	26667	5.00000	5
	72 Ethylbenzene	106	10.306	10.326	(1.018)	33929	5.00000	5
	73 m,p-Xylene	106	10.463	10.474	(1.033)	85044	10.0000	10
	74 o-Xylene	106	10.966	10.966	(1.083)	39517	5.00000	5
	75 Styrene	104	10.976	10.986	(1.084)	64729	5.00000	5

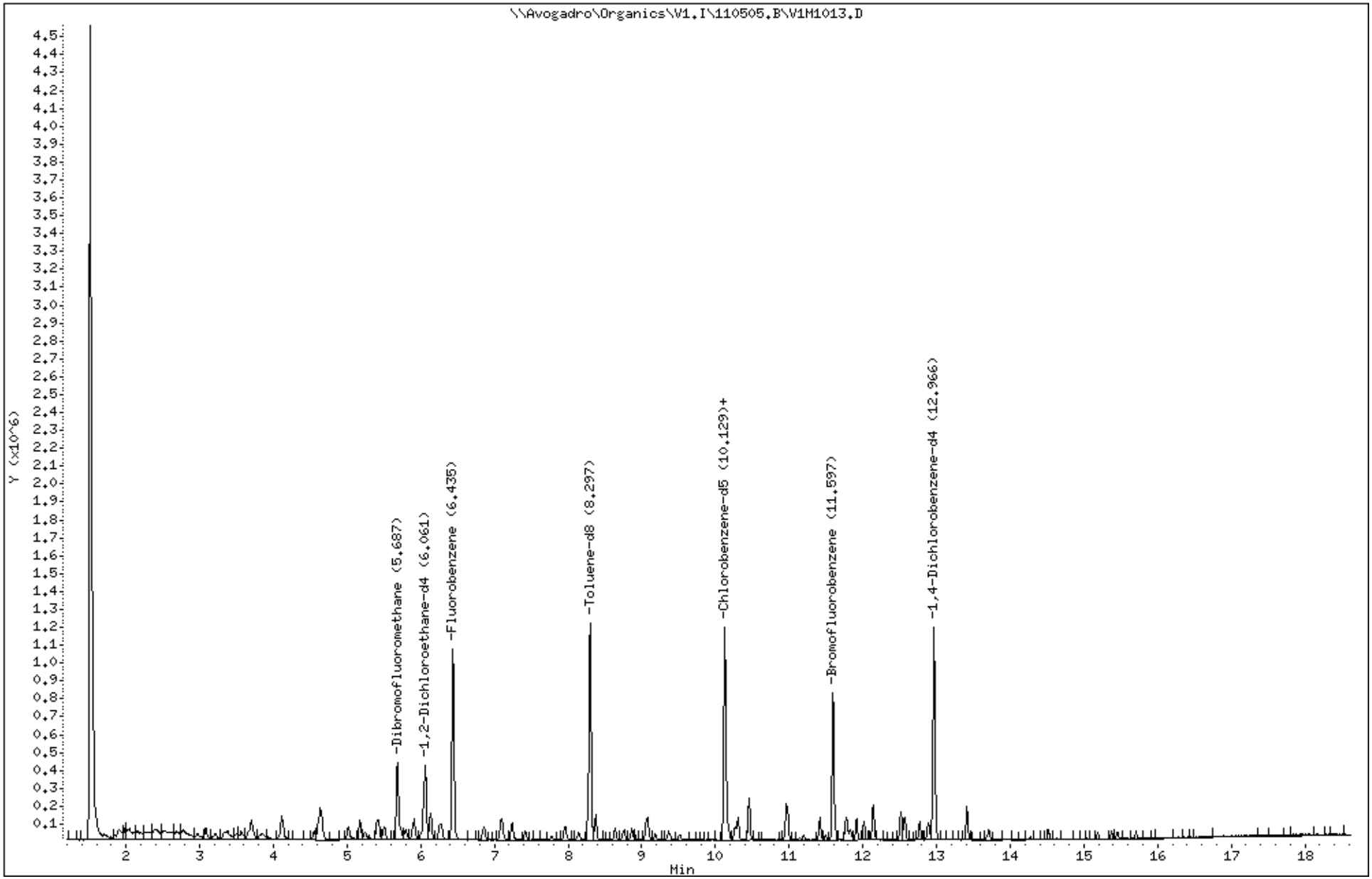
Data File: \\Avogadro\Organics\V1.I\110505.B\V1M1013.D
Report Date: 12-May-2011 15:37

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	76	Bromoform	173	11.192	11.202	(1.105)	12591	5.00000	4(Ta)
	77	Isopropylbenzene	105	11.419	11.429	(1.127)	87820	5.00000	4(a)
	78	trans-1,4-Dichloro-2-butene	75	11.488	11.498	(1.134)	6839	5.00000	3
$	79	Bromofluorobenzene	95	11.596	11.606	(1.145)	355168	50.0000	49
	80	1,1,2,2-Tetrachloroethane	83	11.773	11.774	(0.908)	29883	5.00000	5
	81	Bromobenzene	156	11.783	11.784	(0.909)	28428	5.00000	5
	82	1,2,3-Trichloropropane	75	11.823	11.833	(0.912)	34600	5.00000	5
	83	n-Propylbenzene	120	11.921	11.931	(0.919)	23607	5.00000	5
	84	2-Chlorotoluene	126	12.020	12.030	(0.927)	24565	5.00000	5(Q)
	85	1,3,5-Trimethylbenzene	105	12.128	12.138	(0.935)	72140	5.00000	5
	86	4-Chlorotoluene	126	12.148	12.148	(0.937)	26332	5.00000	5
M	94	Xylene (Total)	106				124561	15.0000	15
	87	tert-Butylbenzene	119	12.512	12.522	(0.965)	78393	5.00000	5
	88	1,2,4-Trimethylbenzene	105	12.571	12.572	(0.970)	76388	5.00000	5
	89	sec-Butylbenzene	105	12.768	12.778	(0.985)	82939	5.00000	5
	90	1,3-Dichlorobenzene	146	12.886	12.897	(0.994)	44381	5.00000	5
	91	4-Isopropyltoluene	119	12.936	12.946	(0.998)	68830	5.00000	5
*	92	1,4-Dichlorobenzene-d4	152	12.965	12.966	(1.000)	347253	50.0000	(Q)
	93	1,4-Dichlorobenzene	146	12.995	12.995	(1.002)	46319	5.00000	5
	95	n-Butylbenzene	91	13.408	13.409	(1.034)	55546	5.00000	5
	96	1,2-Dichlorobenzene	146	13.418	13.419	(1.035)	43195	5.00000	5
	97	Hexachloroethane	117	13.704	13.714	(1.057)	15366	5.00000	5
	98	1,2-Dibromo-3-chloropropane	75	14.285	14.285	(1.102)	3924	5.00000	5
	99	1,2,4-Trichlorobenzene	180	15.191	15.192	(1.172)	15350	5.00000	4(a)
	100	Hexachlorobutadiene	225	15.378	15.379	(1.186)	6625	5.00000	4(a)
	101	Naphthalene	128	15.457	15.448	(1.192)	33000	5.00000	3(a)
	102	1,2,3-Trichlorobenzene	180	15.713	15.704	(1.212)	10964	5.00000	4(a)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\Avogadro\Organics\V1.I\110505.B\V1M1013.D
Date : 05-MAY-2011 10:41
Client ID: VSTD0051M
Instrument: V1.i
Sample Info: 5ML,VSTD0051M,VSTD0051M
Purge Volume: 5.0
Operator: SZ SRC: SZ
Column phase: DB-624
Column diameter: 0.25



Data File: \\Avogadro\Organics\V1.I\110505.B\V1M1014.D
Report Date: 12-May-2011 15:37

Mitkem Laboratories

Method 8260 Water and Medium Soil

Data file : \\Avogadro\Organics\V1.I\110505.B\V1M1014.D
Lab Smp Id: VSTD0201M Client Smp ID: VSTD0201M
Inj Date : 05-MAY-2011 11:27
Operator : SZ SRC: SZ Inst ID: V1.i
Smp Info : 5ML,VSTD0201M,VSTD0201M
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\V1.I\110505.B\v18260Gadd.m
Meth Date : 12-May-2011 15:37 mscarpaci Quant Type: ISTD
Cal Date : 05-MAY-2011 12:19 Cal File: V1M1016.D
Als bottle: 31 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: TARGET104

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1	Dichlorodifluoromethane	85	1.712	1.707	(0.266)	120362	20.0000	23
2	Freon114	85	1.850	1.845	(0.287)	103856	20.0000	22
3	Chloromethane	50	1.900	1.904	(0.295)	216013	20.0000	23
4	Vinyl Chloride	62	2.028	2.023	(0.314)	149074	20.0000	22
5	Bromomethane	94	2.402	2.407	(0.372)	90764	20.0000	22
6	Chloroethane	64	2.530	2.515	(0.392)	81505	20.0000	23
7	Trichlorofluoromethane	101	2.786	2.791	(0.432)	152601	20.0000	22
126	Ethanol	46	2.983	2.978	(0.463)	94076	2000.00	2100(aAQ)
8	Ether	59	3.091	3.086	(0.479)	127175	20.0000	21
9	Acrolein	56	3.219	3.214	(0.499)	122185	100.000	110
10	1,1-Dichloroethene	96	3.357	3.352	(0.521)	112935	20.0000	21
11	1,1,2-Trichloro-1,2,2-Trifluo	101	3.367	3.352	(0.522)	102975	20.0000	23
12	Acetone	58	3.377	3.372	(0.524)	21291	20.0000	19(Q)
13	Iodomethane	142	3.515	3.510	(0.545)	185186	20.0000	20
14	Carbon Disulfide	76	3.574	3.569	(0.554)	395185	20.0000	22
15	Acetonitrile	41	3.712	3.707	(0.576)	581075	200.000	200
16	Allyl Chloride	39	3.712	3.707	(0.576)	250902	20.0000	22(Q)
17	Methyl Acetate	43	3.732	3.727	(0.579)	177386	20.0000	20
19	tert-Butanol	59	3.958	3.953	(0.614)	43749	40.0000	37
18	Methylene Chloride	84	3.860	3.855	(0.598)	115513	20.0000	21
20	Acrylonitrile	53	4.086	4.081	(0.634)	62214	20.0000	20
21	trans-1,2-Dichloroethene	96	4.126	4.130	(0.640)	116346	20.0000	21

Data File: \\Avogadro\Organics\V1.I\110505.B\V1M1014.D
Report Date: 12-May-2011 15:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	22 Methyl tert-butyl ether	73	4.135	4.130	(0.641)	269565	20.0000	21
	23 1,1-Dichloroethane	63	4.569	4.564	(0.708)	252815	20.0000	22
	24 Vinyl acetate	43	4.618	4.623	(0.716)	737058	20.0000	21
	25 Diisopropyl Ether	45	4.648	4.643	(0.721)	727858	20.0000	22
	26 2-Chloro-1,3-Butadiene	53	4.667	4.672	(0.724)	235698	20.0000	22
	27 Ethyl tert-butyl ether	59	5.032	5.027	(0.780)	369986	20.0000	21
	28 cis-1,2-Dichloroethene	96	5.180	5.184	(0.803)	125237	20.0000	21
	29 2,2-Dichloropropane	77	5.189	5.184	(0.805)	86638	20.0000	24
	30 2-Butanone	72	5.199	5.194	(0.806)	17352	20.0000	22(Q)
	32 Propionitrile	54	5.248	5.253	(0.814)	217040	200.000	200
	33 Methacrylonitrile	41	5.416	5.421	(0.840)	258275	40.0000	40
	34 Bromochloromethane	128	5.445	5.440	(0.844)	70008	20.0000	21
	31 Tetrahydrofuran	72	5.495	5.500	(0.852)	23914	40.0000	35
	35 Chloroform	83	5.524	5.529	(0.856)	196530	20.0000	22
$	36 Dibromofluoromethane	113	5.692	5.697	(0.882)	316090	50.0000	51
	37 1,1,1-Trichloroethane	97	5.731	5.736	(0.889)	127142	20.0000	22
	38 Cyclohexane	56	5.800	5.805	(0.899)	218849	20.0000	23
	39 1,1-Dichloropropene	110	5.918	5.913	(0.918)	53981	20.0000	22
	40 Carbon Tetrachloride	117	5.918	5.923	(0.918)	133339	20.0000	22
	41 Isobutyl Alcohol	43	6.017	6.022	(0.933)	156485	400.000	380(A)
$	42 1,2-Dichloroethane-d4	102	6.066	6.071	(0.940)	64910	50.0000	51
	43 Benzene	78	6.145	6.140	(0.953)	429786	20.0000	22
	44 1,2-Dichloroethane	62	6.155	6.150	(0.954)	171534	20.0000	22
	45 tert-Amyl methyl ether	73	6.263	6.268	(0.971)	258802	20.0000	20
M	50 1,2-Dichloroethene (Total)	96				241583	40.0000	42
*	46 Fluorobenzene	96	6.450	6.445	(1.000)	1051234	50.0000	
	47 Trichloroethene	130	6.864	6.869	(1.064)	120792	20.0000	21
	48 Methylcyclohexane	83	7.100	7.095	(1.101)	138771	20.0000	22
	49 1,2-Dichloropropane	63	7.120	7.115	(1.104)	141532	20.0000	21
	51 Methyl Methacrylate	69	7.248	7.253	(1.124)	86001	20.0000	20
	52 Dibromomethane	93	7.258	7.253	(1.125)	82335	20.0000	22
	53 1,4-Dioxane	88	7.278	7.272	(1.128)	5827	400.000	340(A)
	54 Bromodichloromethane	83	7.435	7.430	(1.153)	147892	20.0000	21
	55 2-Chloroethyl vinyl ether	63	7.800	7.785	(1.209)	36088	20.0000	20
	56 cis-1,3-Dichloropropene	75	7.967	7.972	(1.235)	191782	20.0000	21
	57 4-Methyl-2-pentanone	43	8.154	8.159	(1.264)	191419	20.0000	20
$	58 Toluene-d8	98	8.302	8.307	(0.819)	902842	50.0000	49
	59 Toluene	91	8.391	8.395	(1.301)	428950	20.0000	22
	60 trans-1,3-Dichloropropene	75	8.647	8.651	(1.341)	172430	20.0000	21
	61 Ethyl Methacrylate	69	8.765	8.770	(1.359)	131350	20.0000	19
	62 1,1,2-Trichloroethane	97	8.873	8.878	(1.376)	96890	20.0000	21
	63 Tetrachloroethene	164	9.080	9.075	(0.896)	85970	20.0000	21
	64 1,3-Dichloropropane	76	9.090	9.095	(0.897)	171476	20.0000	20
	65 2-Hexanone	43	9.198	9.203	(0.908)	141657	20.0000	19
	66 Dibromochloromethane	129	9.375	9.380	(0.925)	134581	20.0000	21
	67 1,2-Dibromoethane	107	9.533	9.528	(0.941)	108834	20.0000	19
	69 1-Chlorohexane	91	10.144	10.149	(1.001)	146801	20.0000	21(Q)
*	68 Chlorobenzene-d5	117	10.134	10.139	(1.000)	757833	50.0000	
	70 Chlorobenzene	112	10.173	10.178	(1.004)	298130	20.0000	21
	71 1,1,1,2-Tetrachloroethane	131	10.272	10.277	(1.014)	117912	20.0000	21
	72 Ethylbenzene	106	10.311	10.326	(1.017)	149631	20.0000	21
	73 m,p-Xylene	106	10.469	10.474	(1.033)	375831	40.0000	43
	74 o-Xylene	106	10.961	10.966	(1.082)	177380	20.0000	21
	75 Styrene	104	10.981	10.986	(1.084)	289279	20.0000	20

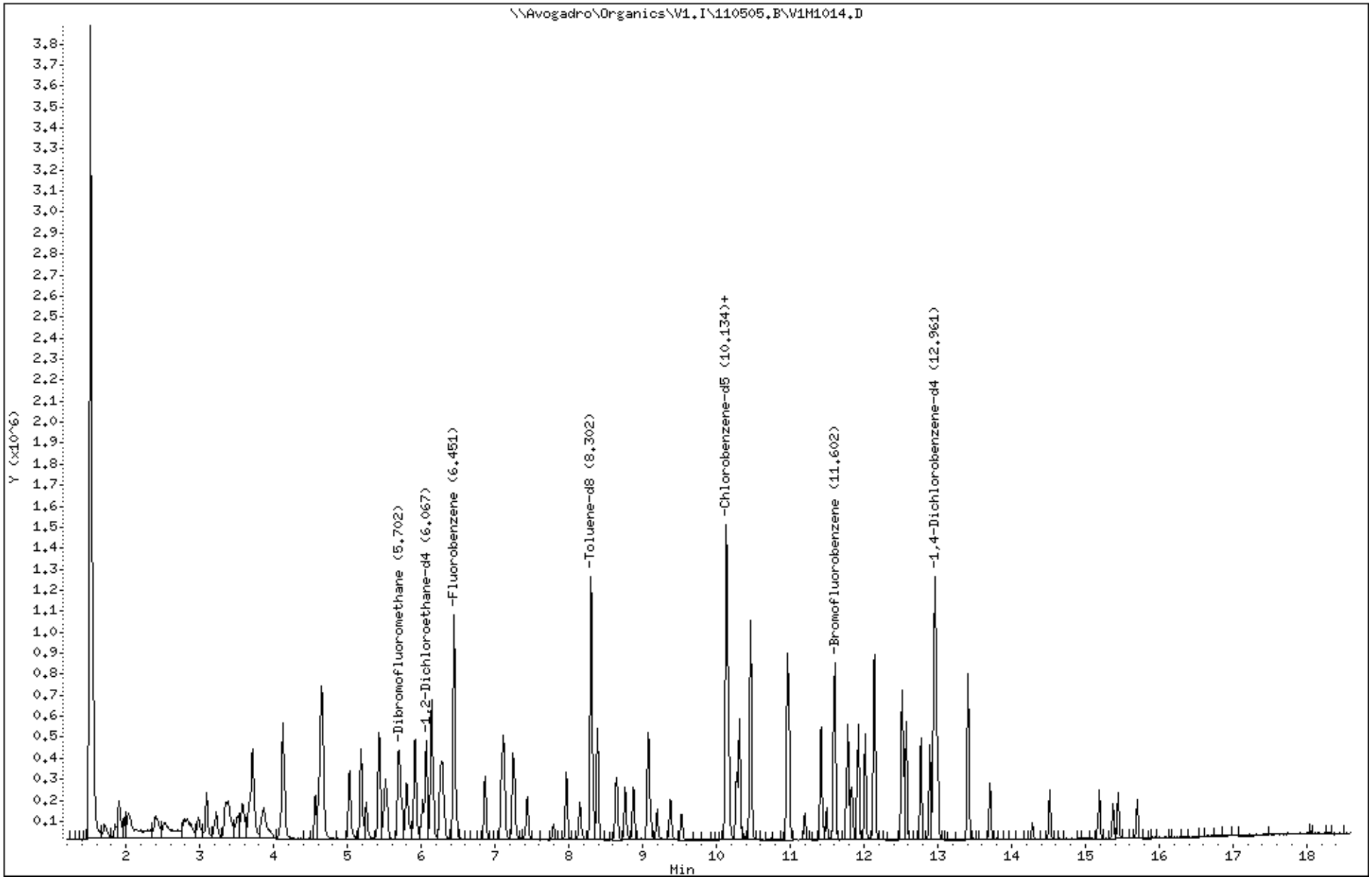
Data File: \\Avogadro\Organics\V1.I\110505.B\V1M1014.D
Report Date: 12-May-2011 15:37

			QUANT SIG					AMOUNTS	
								CAL-AMT	ON-COL
	Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
	76	Bromoform	173	11.198	11.202	(1.105)	69730	20.0000	20(T)
	77	Isopropylbenzene	105	11.424	11.429	(1.127)	433484	20.0000	22
	78	trans-1,4-Dichloro-2-butene	75	11.493	11.498	(1.134)	38447	20.0000	18
$	79	Bromofluorobenzene	95	11.601	11.606	(1.145)	368311	50.0000	49
	80	1,1,2,2-Tetrachloroethane	83	11.769	11.774	(0.907)	128808	20.0000	20
	81	Bromobenzene	156	11.779	11.784	(0.908)	118206	20.0000	21(Q)
	82	1,2,3-Trichloropropane	75	11.828	11.833	(0.912)	142757	20.0000	20(Q)
	83	n-Propylbenzene	120	11.927	11.931	(0.920)	105118	20.0000	21(Q)
	84	2-Chlorotoluene	126	12.015	12.030	(0.926)	109965	20.0000	21
	85	1,3,5-Trimethylbenzene	105	12.133	12.138	(0.935)	338700	20.0000	22
	86	4-Chlorotoluene	126	12.153	12.148	(0.937)	117426	20.0000	21
M	94	Xylene (Total)	106				553211	60.0000	64
	87	tert-Butylbenzene	119	12.517	12.522	(0.965)	342003	20.0000	21
	88	1,2,4-Trimethylbenzene	105	12.567	12.572	(0.969)	341671	20.0000	21
	89	sec-Butylbenzene	105	12.774	12.778	(0.985)	382752	20.0000	21
	90	1,3-Dichlorobenzene	146	12.892	12.897	(0.994)	204463	20.0000	22
	91	4-Isopropyltoluene	119	12.941	12.946	(0.998)	311597	20.0000	21
*	92	1,4-Dichlorobenzene-d4	152	12.971	12.966	(1.000)	359634	50.0000	
	93	1,4-Dichlorobenzene	146	12.990	12.995	(1.002)	203531	20.0000	21
	95	n-Butylbenzene	91	13.404	13.409	(1.033)	264645	20.0000	21
	96	1,2-Dichlorobenzene	146	13.414	13.419	(1.034)	191536	20.0000	21
	97	Hexachloroethane	117	13.709	13.714	(1.057)	72530	20.0000	21
	98	1,2-Dibromo-3-chloropropane	75	14.281	14.285	(1.101)	17108	20.0000	20
	99	1,2,4-Trichlorobenzene	180	15.187	15.192	(1.171)	78716	20.0000	20
	100	Hexachlorobutadiene	225	15.374	15.379	(1.185)	33668	20.0000	22
	101	Naphthalene	128	15.443	15.448	(1.191)	186222	20.0000	18
	102	1,2,3-Trichlorobenzene	180	15.699	15.704	(1.210)	58464	20.0000	19

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\Avogadro\Organics\V1.I\110505.B\V1M1014.D
Date : 05-MAY-2011 11:27
Client ID: VSTD0201M
Instrument: V1.i
Sample Info: 5ML,VSTD0201M,VSTD0201M
Purge Volume: 5.0
Operator: SZ SRC: SZ
Column phase: DB-624
Column diameter: 0.25



Data File: \\Avogadro\Organics\V1.I\110505.B\V1M1015.D
Report Date: 12-May-2011 15:37

Mitkem Laboratories

Method 8260 Water and Medium Soil

Data file : \\Avogadro\Organics\V1.I\110505.B\V1M1015.D
Lab Smp Id: VSTD0501M Client Smp ID: VSTD0501M
Inj Date : 05-MAY-2011 11:53
Operator : SZ SRC: SZ Inst ID: V1.i
Smp Info : 5ML,VSTD0501M,VSTD0501M
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\V1.I\110505.B\v18260Gadd.m
Meth Date : 12-May-2011 15:37 mscarpaci Quant Type: ISTD
Cal Date : 05-MAY-2011 12:19 Cal File: V1M1016.D
Als bottle: 32 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: TARGET104

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1	Dichlorodifluoromethane	85	1.697	1.707	(0.263)	202773	50.0000	40
2	Freon114	85	1.845	1.845	(0.286)	189420	50.0000	41
3	Chloromethane	50	1.904	1.904	(0.295)	442794	50.0000	47
4	Vinyl Chloride	62	2.032	2.023	(0.315)	284599	50.0000	42
5	Bromomethane	94	2.406	2.407	(0.373)	183696	50.0000	44
6	Chloroethane	64	2.515	2.515	(0.390)	159506	50.0000	46
7	Trichlorofluoromethane	101	2.790	2.791	(0.432)	283063	50.0000	42
126	Ethanol	46	2.978	2.978	(0.461)	218813	5000.00	4900(A)
8	Ether	59	3.086	3.086	(0.478)	281040	50.0000	47
9	Acrolein	56	3.214	3.214	(0.498)	285194	250.000	250(A)
10	1,1-Dichloroethene	96	3.352	3.352	(0.519)	231644	50.0000	43
11	1,1,2-Trichloro-1,2,2-Trifluo	101	3.362	3.352	(0.521)	198129	50.0000	46
12	Acetone	58	3.381	3.372	(0.524)	52859	50.0000	47
13	Iodomethane	142	3.510	3.510	(0.544)	407019	50.0000	45
14	Carbon Disulfide	76	3.578	3.569	(0.554)	756187	50.0000	43
15	Acetonitrile	41	3.706	3.707	(0.574)	1403274	500.000	490(A)
16	Allyl Chloride	39	3.706	3.707	(0.574)	548920	50.0000	48
17	Methyl Acetate	43	3.726	3.727	(0.577)	438452	50.0000	50
19	tert-Butanol	59	3.953	3.953	(0.612)	109858	100.000	95
18	Methylene Chloride	84	3.854	3.855	(0.597)	245294	50.0000	46
20	Acrylonitrile	53	4.081	4.081	(0.632)	157781	50.0000	51
21	trans-1,2-Dichloroethene	96	4.130	4.130	(0.640)	237398	50.0000	44

Data File: \\Avogadro\Organics\V1.I\110505.B\V1M1015.D
Report Date: 12-May-2011 15:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	22 Methyl tert-butyl ether	73	4.130	4.130	(0.640)	608194	50.0000	48
	23 1,1-Dichloroethane	63	4.573	4.564	(0.709)	496883	50.0000	44
	24 Vinyl acetate	43	4.623	4.623	(0.716)	1635204	50.0000	47
	25 Diisopropyl Ether	45	4.652	4.643	(0.721)	1522371	50.0000	46
	26 2-Chloro-1,3-Butadiene	53	4.672	4.672	(0.724)	468004	50.0000	45
	27 Ethyl tert-butyl ether	59	5.036	5.027	(0.780)	812166	50.0000	47
	28 cis-1,2-Dichloroethene	96	5.194	5.184	(0.805)	256080	50.0000	44
	29 2,2-Dichloropropane	77	5.194	5.184	(0.805)	161767	50.0000	45
	30 2-Butanone	72	5.204	5.194	(0.806)	40720	50.0000	51
	32 Propionitrile	54	5.253	5.253	(0.814)	553779	500.000	510(A)
	33 Methacrylonitrile	41	5.430	5.421	(0.841)	631712	100.000	98
	34 Bromochloromethane	128	5.450	5.440	(0.844)	153976	50.0000	47
	31 Tetrahydrofuran	72	5.499	5.500	(0.852)	67988	100.000	100
	35 Chloroform	83	5.529	5.529	(0.857)	412331	50.0000	46
$	36 Dibromofluoromethane	113	5.706	5.697	(0.884)	305961	50.0000	50
	37 1,1,1-Trichloroethane	97	5.745	5.736	(0.890)	253699	50.0000	45
	38 Cyclohexane	56	5.814	5.805	(0.901)	403823	50.0000	42
	39 1,1-Dichloropropene	110	5.923	5.913	(0.918)	105725	50.0000	44
	40 Carbon Tetrachloride	117	5.933	5.923	(0.919)	261474	50.0000	44
	41 Isobutyl Alcohol	43	6.021	6.022	(0.933)	442947	1000.00	1100(A)
$	42 1,2-Dichloroethane-d4	102	6.080	6.071	(0.942)	64395	50.0000	51
	43 Benzene	78	6.149	6.140	(0.953)	863021	50.0000	44
	44 1,2-Dichloroethane	62	6.159	6.150	(0.954)	363043	50.0000	47
	45 tert-Amyl methyl ether	73	6.267	6.268	(0.971)	581818	50.0000	46
M	50 1,2-Dichloroethene (Total)	96				493478	100.000	88
*	46 Fluorobenzene	96	6.455	6.445	(1.000)	1041088	50.0000	
	47 Trichloroethene	130	6.868	6.869	(1.064)	246528	50.0000	43
	48 Methylcyclohexane	83	7.105	7.095	(1.101)	275691	50.0000	44
	49 1,2-Dichloropropane	63	7.124	7.115	(1.104)	298843	50.0000	46
	51 Methyl Methacrylate	69	7.252	7.253	(1.124)	218630	50.0000	50
	52 Dibromomethane	93	7.262	7.253	(1.125)	176161	50.0000	46
	53 1,4-Dioxane	88	7.282	7.272	(1.128)	15738	1000.00	900(AQ)
	54 Bromodichloromethane	83	7.440	7.430	(1.153)	313094	50.0000	45
	55 2-Chloroethyl vinyl ether	63	7.794	7.785	(1.208)	83401	50.0000	46
	56 cis-1,3-Dichloropropene	75	7.971	7.972	(1.235)	423778	50.0000	47
	57 4-Methyl-2-pentanone	43	8.159	8.159	(1.264)	476902	50.0000	50
$	58 Toluene-d8	98	8.306	8.307	(0.819)	885150	50.0000	49
	59 Toluene	91	8.385	8.395	(1.299)	857917	50.0000	44
	60 trans-1,3-Dichloropropene	75	8.651	8.651	(1.340)	390335	50.0000	48
	61 Ethyl Methacrylate	69	8.769	8.770	(1.359)	334066	50.0000	50
	62 1,1,2-Trichloroethane	97	8.878	8.878	(1.375)	218222	50.0000	47
	63 Tetrachloroethene	164	9.075	9.075	(0.895)	167104	50.0000	42
	64 1,3-Dichloropropane	76	9.094	9.095	(0.897)	390333	50.0000	47
	65 2-Hexanone	43	9.193	9.203	(0.907)	357768	50.0000	49
	66 Dibromochloromethane	129	9.380	9.380	(0.925)	298701	50.0000	48
	67 1,2-Dibromoethane	107	9.528	9.528	(0.940)	266873	50.0000	48
	69 1-Chlorohexane	91	10.148	10.149	(1.001)	299084	50.0000	44(Q)
*	68 Chlorobenzene-d5	117	10.138	10.139	(1.000)	745518	50.0000	
	70 Chlorobenzene	112	10.178	10.178	(1.004)	604163	50.0000	43
	71 1,1,1,2-Tetrachloroethane	131	10.276	10.277	(1.014)	245344	50.0000	44
	72 Ethylbenzene	106	10.316	10.326	(1.017)	298999	50.0000	43
	73 m,p-Xylene	106	10.473	10.474	(1.033)	750050	100.000	87
	74 o-Xylene	106	10.966	10.966	(1.082)	372033	50.0000	45
	75 Styrene	104	10.985	10.986	(1.084)	631407	50.0000	46

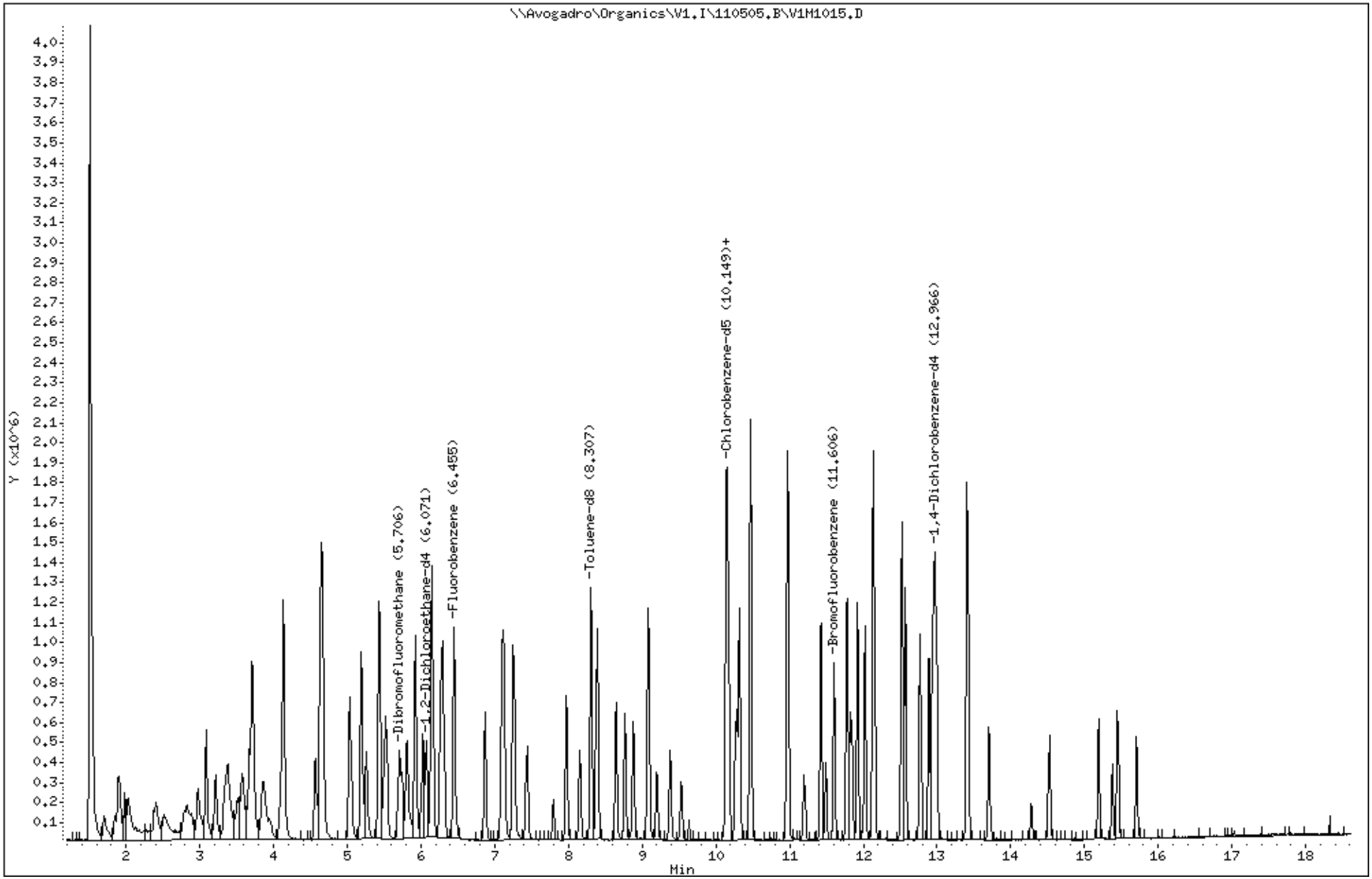
Data File: \\Avogadro\Organics\V1.I\110505.B\V1M1015.D
Report Date: 12-May-2011 15:37

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	76	Bromoform	173	11.202	11.202	(1.105)	178975	50.0000	51
	77	Isopropylbenzene	105	11.429	11.429	(1.127)	885701	50.0000	45
	78	trans-1,4-Dichloro-2-butene	75	11.498	11.498	(1.134)	103533	50.0000	50
$	79	Bromofluorobenzene	95	11.606	11.606	(1.145)	372263	50.0000	50
	80	1,1,2,2-Tetrachloroethane	83	11.773	11.774	(0.908)	311351	50.0000	48
	81	Bromobenzene	156	11.783	11.784	(0.909)	256658	50.0000	44
	82	1,2,3-Trichloropropane	75	11.832	11.833	(0.913)	357656	50.0000	47
	83	n-Propylbenzene	120	11.921	11.931	(0.919)	228254	50.0000	44
	84	2-Chlorotoluene	126	12.020	12.030	(0.927)	232943	50.0000	44
	85	1,3,5-Trimethylbenzene	105	12.138	12.138	(0.936)	721371	50.0000	45
	86	4-Chlorotoluene	126	12.148	12.148	(0.937)	254006	50.0000	45
M	94	Xylene (Total)	106				1122083	150.000	130
	87	tert-Butylbenzene	119	12.522	12.522	(0.966)	753717	50.0000	45
	88	1,2,4-Trimethylbenzene	105	12.571	12.572	(0.970)	747407	50.0000	45
	89	sec-Butylbenzene	105	12.768	12.778	(0.985)	856762	50.0000	46
	90	1,3-Dichlorobenzene	146	12.896	12.897	(0.995)	443907	50.0000	45
	91	4-Isopropyltoluene	119	12.945	12.946	(0.998)	686157	50.0000	45
*	92	1,4-Dichlorobenzene-d4	152	12.965	12.966	(1.000)	371569	50.0000	
	93	1,4-Dichlorobenzene	146	12.995	12.995	(1.002)	452843	50.0000	45
	95	n-Butylbenzene	91	13.408	13.409	(1.034)	589028	50.0000	46
	96	1,2-Dichlorobenzene	146	13.418	13.419	(1.035)	449491	50.0000	47
	97	Hexachloroethane	117	13.704	13.714	(1.057)	160550	50.0000	45
	98	1,2-Dibromo-3-chloropropane	75	14.275	14.285	(1.101)	43144	50.0000	48
	99	1,2,4-Trichlorobenzene	180	15.191	15.192	(1.172)	190085	50.0000	48
	100	Hexachlorobutadiene	225	15.378	15.379	(1.186)	70882	50.0000	46
	101	Naphthalene	128	15.447	15.448	(1.191)	546451	50.0000	51
	102	1,2,3-Trichlorobenzene	180	15.703	15.704	(1.211)	162450	50.0000	51

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\Avogadro\Organics\V1.I\110505.B\V1M1015.D
Date : 05-MAY-2011 11:53
Client ID: VSTD0501M
Instrument: V1.i
Sample Info: 5ML,VSTD0501M,VSTD0501M
Purge Volume: 5.0
Operator: SZ SRC: SZ
Column phase: DB-624
Column diameter: 0.25



Data File: \\Avogadro\Organics\V1.I\110505.B\V1M1016.D
Report Date: 12-May-2011 15:37

Mitkem Laboratories

Method 8260 Water and Medium Soil

Data file : \\Avogadro\Organics\V1.I\110505.B\V1M1016.D
Lab Smp Id: VSTD1001M Client Smp ID: VSTD1001M
Inj Date : 05-MAY-2011 12:19
Operator : SZ SRC: SZ Inst ID: V1.i
Smp Info : 5ML,VSTD1001M,VSTD1001M
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\V1.I\110505.B\v18260Gadd.m
Meth Date : 12-May-2011 15:37 mscarpaci Quant Type: ISTD
Cal Date : 05-MAY-2011 12:19 Cal File: V1M1016.D
Als bottle: 33 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: TARGET104

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1	Dichlorodifluoromethane	85	1.708	1.707	(0.265)	494665	100.000	96
2	Freon114	85	1.856	1.845	(0.287)	458489	100.000	99
3	Chloromethane	50	1.905	1.904	(0.295)	877386	100.000	93
4	Vinyl Chloride	62	2.033	2.023	(0.315)	656627	100.000	97
5	Bromomethane	94	2.407	2.407	(0.373)	405338	100.000	96
6	Chloroethane	64	2.525	2.515	(0.391)	347012	100.000	99
7	Trichlorofluoromethane	101	2.801	2.791	(0.434)	665230	100.000	98
126	Ethanol	46	2.978	2.978	(0.461)	498996	10000.0	11000(A)
8	Ether	59	3.087	3.086	(0.478)	601705	100.000	100
9	Acrolein	56	3.215	3.214	(0.498)	588470	500.000	520(A)
10	1,1-Dichloroethene	96	3.353	3.352	(0.519)	533848	100.000	99
11	1,1,2-Trichloro-1,2,2-Trifluo	101	3.363	3.352	(0.521)	457203	100.000	100
12	Acetone	58	3.382	3.372	(0.524)	107223	100.000	94
13	Iodomethane	142	3.520	3.510	(0.545)	932063	100.000	100
14	Carbon Disulfide	76	3.579	3.569	(0.554)	1742501	100.000	98
15	Acetonitrile	41	3.707	3.707	(0.574)	2864035	1000.00	1000(A)
16	Allyl Chloride	39	3.707	3.707	(0.574)	1162985	100.000	100
17	Methyl Acetate	43	3.727	3.727	(0.577)	911455	100.000	100
19	tert-Butanol	59	3.953	3.953	(0.612)	243149	200.000	210(A)
18	Methylene Chloride	84	3.865	3.855	(0.599)	528731	100.000	97
20	Acrylonitrile	53	4.082	4.081	(0.632)	318024	100.000	100
21	trans-1,2-Dichloroethene	96	4.131	4.130	(0.640)	536451	100.000	98

Data File: \\Avogadro\Organics\V1.I\110505.B\V1M1016.D
Report Date: 12-May-2011 15:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	22 Methyl tert-butyl ether	73	4.141	4.130	(0.641)	1291506	100.000	100
	23 1,1-Dichloroethane	63	4.574	4.564	(0.709)	1108809	100.000	96
	24 Vinyl acetate	43	4.623	4.623	(0.716)	3468534	100.000	100
	25 Diisopropyl Ether	45	4.653	4.643	(0.721)	3252845	100.000	97
	26 2-Chloro-1,3-Butadiene	53	4.673	4.672	(0.724)	1037243	100.000	98
	27 Ethyl tert-butyl ether	59	5.037	5.027	(0.780)	1708018	100.000	98
	28 cis-1,2-Dichloroethene	96	5.195	5.184	(0.805)	576990	100.000	98
	29 2,2-Dichloropropane	77	5.195	5.184	(0.805)	351131	100.000	97
	30 2-Butanone	72	5.204	5.194	(0.806)	82458	100.000	100
	32 Propionitrile	54	5.254	5.253	(0.814)	1152515	1000.00	1000(A)
	33 Methacrylonitrile	41	5.421	5.421	(0.840)	1335664	200.000	210(A)
	34 Bromochloromethane	128	5.451	5.440	(0.844)	343615	100.000	100
	31 Tetrahydrofuran	72	5.500	5.500	(0.852)	147187	200.000	210(A)
	35 Chloroform	83	5.529	5.529	(0.857)	893444	100.000	98
$	36 Dibromofluoromethane	113	5.707	5.697	(0.884)	307252	50.0000	50
	37 1,1,1-Trichloroethane	97	5.746	5.736	(0.890)	567978	100.000	99
	38 Cyclohexane	56	5.815	5.805	(0.901)	978033	100.000	100
	39 1,1-Dichloropropene	110	5.923	5.913	(0.918)	249453	100.000	100
	40 Carbon Tetrachloride	117	5.933	5.923	(0.919)	603367	100.000	100
	41 Isobutyl Alcohol	43	6.022	6.022	(0.933)	912843	2000.00	2200(A)
$	42 1,2-Dichloroethane-d4	102	6.081	6.071	(0.942)	66318	50.0000	52
	43 Benzene	78	6.150	6.140	(0.953)	1933535	100.000	98
	44 1,2-Dichloroethane	62	6.160	6.150	(0.954)	771770	100.000	98
	45 tert-Amyl methyl ether	73	6.278	6.268	(0.973)	1258365	100.000	100
M	50 1,2-Dichloroethene (Total)	96				1113441	200.000	200
*	46 Fluorobenzene	96	6.455	6.445	(1.000)	1050422	50.0000	
	47 Trichloroethene	130	6.879	6.869	(1.066)	555868	100.000	96
	48 Methylcyclohexane	83	7.105	7.095	(1.101)	667814	100.000	100
	49 1,2-Dichloropropane	63	7.125	7.115	(1.104)	638915	100.000	97
	51 Methyl Methacrylate	69	7.253	7.253	(1.124)	456879	100.000	100
	52 Dibromomethane	93	7.263	7.253	(1.125)	373485	100.000	98
	53 1,4-Dioxane	88	7.283	7.272	(1.128)	41800	2000.00	2500(A)
	54 Bromodichloromethane	83	7.440	7.430	(1.153)	691987	100.000	100
	55 2-Chloroethyl vinyl ether	63	7.805	7.785	(1.209)	178736	100.000	99
	56 cis-1,3-Dichloropropene	75	7.982	7.972	(1.236)	917519	100.000	100
	57 4-Methyl-2-pentanone	43	8.159	8.159	(1.264)	1001040	100.000	100
$	58 Toluene-d8	98	8.317	8.307	(0.820)	897492	50.0000	49
	59 Toluene	91	8.396	8.395	(1.301)	1943273	100.000	98
	60 trans-1,3-Dichloropropene	75	8.652	8.651	(1.340)	840153	100.000	100
	61 Ethyl Methacrylate	69	8.780	8.770	(1.360)	702238	100.000	100
	62 1,1,2-Trichloroethane	97	8.888	8.878	(1.377)	478044	100.000	100
	63 Tetrachloroethene	164	9.085	9.075	(0.896)	384819	100.000	96
	64 1,3-Dichloropropane	76	9.095	9.095	(0.897)	821984	100.000	98
	65 2-Hexanone	43	9.203	9.203	(0.908)	762298	100.000	100
	66 Dibromochloromethane	129	9.390	9.380	(0.926)	637756	100.000	100
	67 1,2-Dibromoethane	107	9.538	9.528	(0.941)	570810	100.000	100
	69 1-Chlorohexane	91	10.159	10.149	(1.002)	685369	100.000	100
*	68 Chlorobenzene-d5	117	10.139	10.139	(1.000)	752247	50.0000	
	70 Chlorobenzene	112	10.178	10.178	(1.004)	1367444	100.000	97
	71 1,1,1,2-Tetrachloroethane	131	10.287	10.277	(1.015)	563111	100.000	100
	72 Ethylbenzene	106	10.326	10.326	(1.018)	690588	100.000	98
	73 m,p-Xylene	106	10.474	10.474	(1.033)	1695157	200.000	200
	74 o-Xylene	106	10.976	10.966	(1.083)	836628	100.000	100
	75 Styrene	104	10.986	10.986	(1.084)	1412916	100.000	100

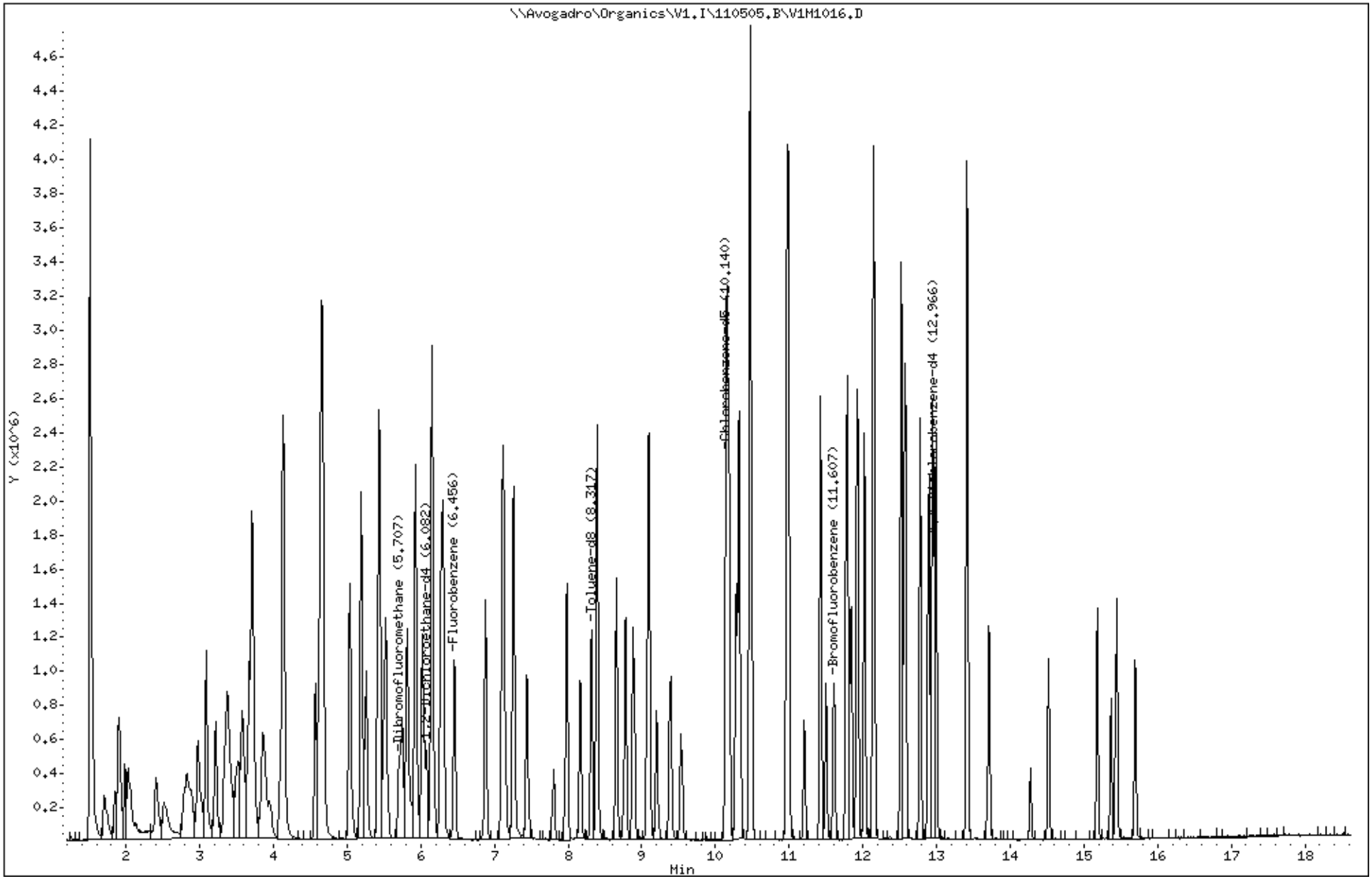
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Report Date: 12-May-2011 15:37

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	76	Bromoform	173	11.203	11.202	(1.105)	385676	100.000	110
	77	Isopropylbenzene	105	11.429	11.429	(1.127)	2010922	100.000	100
	78	trans-1,4-Dichloro-2-butene	75	11.498	11.498	(1.134)	237963	100.000	110
$	79	Bromofluorobenzene	95	11.607	11.606	(1.145)	370886	50.0000	50
	80	1,1,2,2-Tetrachloroethane	83	11.774	11.774	(0.908)	655013	100.000	99
	81	Bromobenzene	156	11.784	11.784	(0.909)	563536	100.000	96
	82	1,2,3-Trichloropropane	75	11.833	11.833	(0.913)	773707	100.000	100
	83	n-Propylbenzene	120	11.922	11.931	(0.919)	534449	100.000	100
	84	2-Chlorotoluene	126	12.020	12.030	(0.927)	535323	100.000	98
	85	1,3,5-Trimethylbenzene	105	12.138	12.138	(0.936)	1619417	100.000	99
	86	4-Chlorotoluene	126	12.148	12.148	(0.937)	567334	100.000	98
M	94	Xylene (Total)	106				2531785	300.000	300
	87	tert-Butylbenzene	119	12.523	12.522	(0.966)	1707078	100.000	100
	88	1,2,4-Trimethylbenzene	105	12.572	12.572	(0.970)	1708466	100.000	100
	89	sec-Butylbenzene	105	12.779	12.778	(0.986)	1946502	100.000	100
	90	1,3-Dichlorobenzene	146	12.897	12.897	(0.995)	981552	100.000	98
	91	4-Isopropyltoluene	119	12.946	12.946	(0.998)	1604743	100.000	100
*	92	1,4-Dichlorobenzene-d4	152	12.966	12.966	(1.000)	378739	50.0000	
	93	1,4-Dichlorobenzene	146	12.995	12.995	(1.002)	1022632	100.000	100
	95	n-Butylbenzene	91	13.409	13.409	(1.034)	1342397	100.000	100
	96	1,2-Dichlorobenzene	146	13.419	13.419	(1.035)	964766	100.000	100
	97	Hexachloroethane	117	13.705	13.714	(1.057)	363929	100.000	100
	98	1,2-Dibromo-3-chloropropane	75	14.276	14.285	(1.101)	92173	100.000	100
	99	1,2,4-Trichlorobenzene	180	15.182	15.192	(1.171)	431695	100.000	110
	100	Hexachlorobutadiene	225	15.369	15.379	(1.185)	159916	100.000	100
	101	Naphthalene	128	15.438	15.448	(1.191)	1235707	100.000	110
	102	1,2,3-Trichlorobenzene	180	15.694	15.704	(1.210)	354727	100.000	110

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\Avogadro\Organics\V1.I\110505.B\V1M1016.D
Date : 05-MAY-2011 12:19
Client ID: VSTD1001M
Instrument: V1.i
Sample Info: 5ML,VSTD1001M,VSTD1001M
Purge Volume: 5.0
Operator: SZ SRC: SZ
Column phase: DB-624
Column diameter: 0.25



Data File: \\Avogadro\Organics\V1.I\110505.B\V1M1017.D
Report Date: 12-May-2011 15:37

Mitkem Laboratories

Method 8260 Water and Medium Soil

Data file : \\Avogadro\Organics\V1.I\110505.B\V1M1017.D
Lab Smp Id: VSTD2001M Client Smp ID: VSTD2001M
Inj Date : 05-MAY-2011 12:45
Operator : SZ SRC: SZ Inst ID: V1.i
Smp Info : 5ML,VSTD2001M,VSTD2001M
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\V1.I\110505.B\v18260Gadd.m
Meth Date : 12-May-2011 15:37 mscarpaci Quant Type: ISTD
Cal Date : 05-MAY-2011 12:19 Cal File: V1M1016.D
Als bottle: 34 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: TARGET104

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1	Dichlorodifluoromethane	85	1.702	1.707	(0.264)	1081191	200.000	210(A)
2	Freon114	85	1.850	1.845	(0.287)	1001759	200.000	210(A)
3	Chloromethane	50	1.899	1.904	(0.294)	1910465	200.000	200
4	Vinyl Chloride	62	2.027	2.023	(0.314)	1430732	200.000	210(A)
5	Bromomethane	94	2.401	2.407	(0.372)	862419	200.000	200
6	Chloroethane	64	2.520	2.515	(0.391)	781384	200.000	220(A)
7	Trichlorofluoromethane	101	2.795	2.791	(0.433)	1465335	200.000	210(A)
126	Ethanol	46	2.982	2.978	(0.462)	1057552	20000.0	23000(A)
8	Ether	59	3.091	3.086	(0.479)	1268748	200.000	210(A)
9	Acrolein	56	3.219	3.214	(0.499)	1156626	1000.00	1000(A)
10	1,1-Dichloroethene	96	3.357	3.352	(0.521)	1195179	200.000	220(A)
11	1,1,2-Trichloro-1,2,2-Trifluo	101	3.367	3.352	(0.522)	1029298	200.000	230(A)
12	Acetone	58	3.376	3.372	(0.524)	214173	200.000	180(Q)
13	Iodomethane	142	3.514	3.510	(0.545)	2056881	200.000	220(A)
14	Carbon Disulfide	76	3.583	3.569	(0.556)	3768715	200.000	210(A)
15	Acetonitrile	41	3.711	3.707	(0.575)	6057813	2000.00	2100(A)
16	Allyl Chloride	39	3.711	3.707	(0.575)	2138833	200.000	180
17	Methyl Acetate	43	3.731	3.727	(0.579)	1884553	200.000	210(A)
19	tert-Butanol	59	3.958	3.953	(0.614)	521737	400.000	440(A)
18	Methylene Chloride	84	3.859	3.855	(0.598)	1147859	200.000	210(A)
20	Acrylonitrile	53	4.086	4.081	(0.634)	651975	200.000	200(A)
21	trans-1,2-Dichloroethene	96	4.135	4.130	(0.641)	1162024	200.000	210(A)

Data File: \\Avogadro\Organics\V1.I\110505.B\V1M1017.D
Report Date: 12-May-2011 15:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	22 Methyl tert-butyl ether	73	4.135	4.130	(0.641)	2659765	200.000	200
	23 1,1-Dichloroethane	63	4.568	4.564	(0.708)	2310299	200.000	200
	24 Vinyl acetate	43	4.627	4.623	(0.717)	7102406	200.000	200
	25 Diisopropyl Ether	45	4.647	4.643	(0.721)	6699867	200.000	200
	26 2-Chloro-1,3-Butadiene	53	4.667	4.672	(0.724)	2214880	200.000	200(A)
	27 Ethyl tert-butyl ether	59	5.031	5.027	(0.780)	3661937	200.000	210(A)
	28 cis-1,2-Dichloroethene	96	5.189	5.184	(0.805)	1244479	200.000	210(A)
	29 2,2-Dichloropropane	77	5.189	5.184	(0.805)	695787	200.000	190
	30 2-Butanone	72	5.199	5.194	(0.806)	158370	200.000	190
	32 Propionitrile	54	5.258	5.253	(0.815)	2351581	2000.00	2100(A)
	33 Methacrylonitrile	41	5.425	5.421	(0.841)	2676927	400.000	410(A)
	34 Bromochloromethane	128	5.445	5.440	(0.844)	709056	200.000	210(A)
	31 Tetrahydrofuran	72	5.494	5.500	(0.852)	302977	400.000	430(A)
	35 Chloroform	83	5.534	5.529	(0.858)	1877083	200.000	200
$	36 Dibromofluoromethane	113	5.701	5.697	(0.884)	313039	50.0000	50
	37 1,1,1-Trichloroethane	97	5.740	5.736	(0.890)	1146219	200.000	200
	38 Cyclohexane	56	5.809	5.805	(0.901)	2068924	200.000	210(A)
	39 1,1-Dichloropropene	110	5.918	5.913	(0.918)	549573	200.000	220(A)
	40 Carbon Tetrachloride	117	5.927	5.923	(0.919)	1280947	200.000	210(A)
	41 Isobutyl Alcohol	43	6.016	6.022	(0.933)	1886269	4000.00	4400(A)
$	42 1,2-Dichloroethane-d4	102	6.075	6.071	(0.942)	62614	50.0000	48
	43 Benzene	78	6.144	6.140	(0.953)	4102812	200.000	200
	44 1,2-Dichloroethane	62	6.154	6.150	(0.954)	1533427	200.000	190
	45 tert-Amyl methyl ether	73	6.272	6.268	(0.973)	2667911	200.000	210(A)
M	50 1,2-Dichloroethene (Total)	96				2406503	400.000	420
*	46 Fluorobenzene	96	6.450	6.445	(1.000)	1068522	50.0000	
	47 Trichloroethene	130	6.873	6.869	(1.066)	1209995	200.000	200(A)
	48 Methylcyclohexane	83	7.100	7.095	(1.101)	1390565	200.000	210(A)
	49 1,2-Dichloropropane	63	7.129	7.115	(1.105)	1372304	200.000	200
	51 Methyl Methacrylate	69	7.247	7.253	(1.124)	960064	200.000	220(A)
	52 Dibromomethane	93	7.257	7.253	(1.125)	787178	200.000	200
	53 1,4-Dioxane	88	7.277	7.272	(1.128)	89640	4000.00	5300(A)
	54 Bromodichloromethane	83	7.434	7.430	(1.153)	1459520	200.000	210(A)
	55 2-Chloroethyl vinyl ether	63	7.799	7.785	(1.209)	424257	200.000	230(A)
	56 cis-1,3-Dichloropropene	75	7.976	7.972	(1.237)	1968079	200.000	210(A)
	57 4-Methyl-2-pentanone	43	8.154	8.159	(1.264)	2053384	200.000	210(A)
$	58 Toluene-d8	98	8.311	8.307	(0.820)	915635	50.0000	51
	59 Toluene	91	8.390	8.395	(1.301)	4134613	200.000	200(A)
	60 trans-1,3-Dichloropropene	75	8.656	8.651	(1.342)	1751055	200.000	210(A)
	61 Ethyl Methacrylate	69	8.774	8.770	(1.360)	1480119	200.000	220(A)
	62 1,1,2-Trichloroethane	97	8.882	8.878	(1.377)	1009876	200.000	210(A)
	63 Tetrachloroethene	164	9.079	9.075	(0.896)	829969	200.000	210(A)
	64 1,3-Dichloropropane	76	9.089	9.095	(0.897)	1701634	200.000	200(A)
	65 2-Hexanone	43	9.198	9.203	(0.908)	1535114	200.000	210(A)
	66 Dibromochloromethane	129	9.385	9.380	(0.926)	1370079	200.000	220(A)
	67 1,2-Dibromoethane	107	9.532	9.528	(0.941)	1193458	200.000	220(A)
	69 1-Chlorohexane	91	10.153	10.149	(1.002)	1451049	200.000	210(A)
*	68 Chlorobenzene-d5	117	10.133	10.139	(1.000)	744121	50.0000	
	70 Chlorobenzene	112	10.173	10.178	(1.004)	2899378	200.000	210(A)
	71 1,1,1,2-Tetrachloroethane	131	10.281	10.277	(1.015)	1166462	200.000	210(A)
	72 Ethylbenzene	106	10.320	10.326	(1.018)	1510558	200.000	220(A)
	73 m,p-Xylene	106	10.468	10.474	(1.033)	3635363	400.000	420(A)
	74 o-Xylene	106	10.970	10.966	(1.083)	1793967	200.000	220(A)
	75 Styrene	104	10.980	10.986	(1.084)	3035175	200.000	220(A)

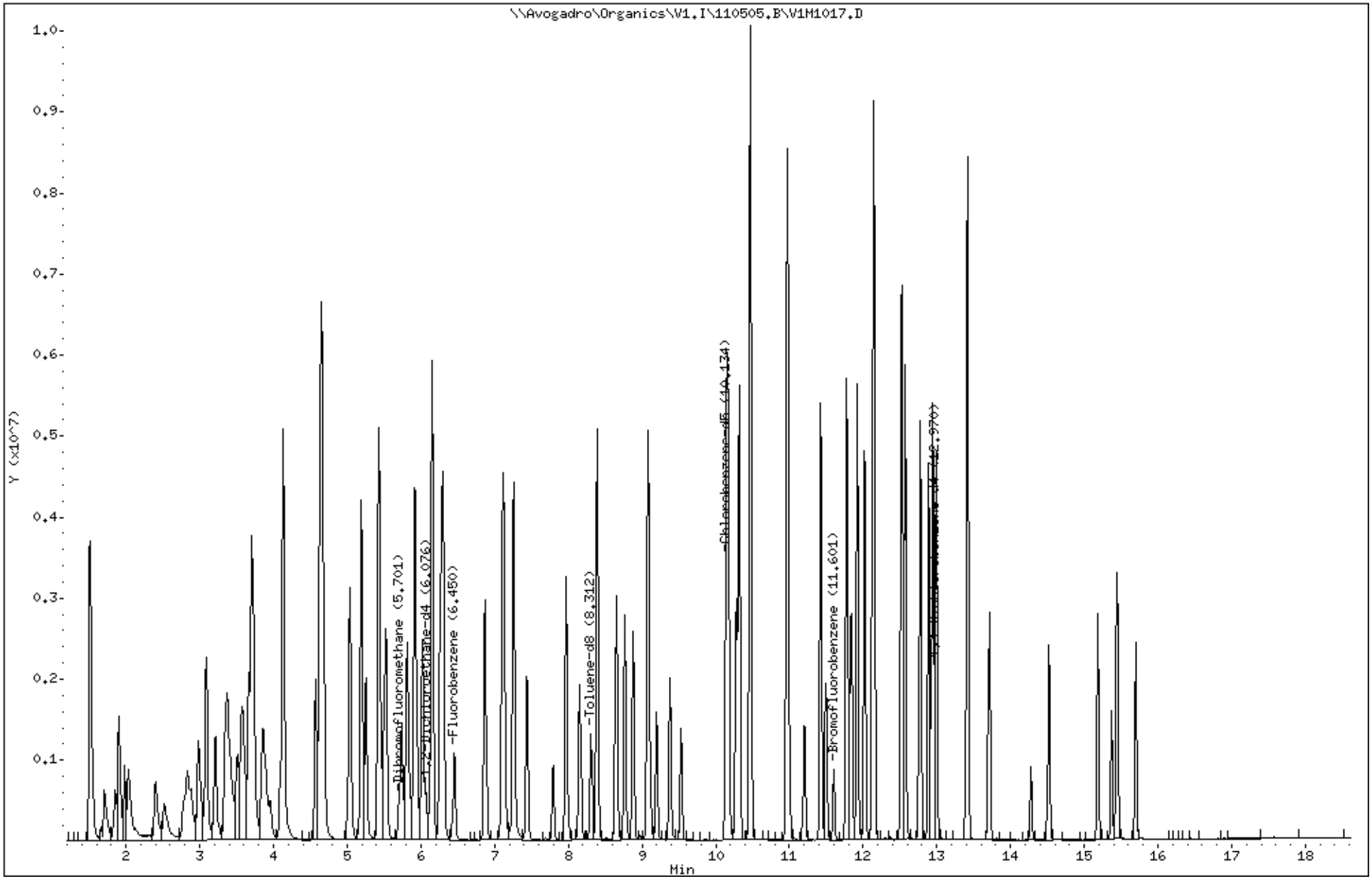
Data File: \\Avogadro\Organics\V1.I\110505.B\V1M1017.D
Report Date: 12-May-2011 15:37

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
	76	Bromoform	173	11.207	11.202	(1.106)	832338	200.000	240(A)
	77	Isopropylbenzene	105	11.424	11.429	(1.127)	4297595	200.000	220(A)
	78	trans-1,4-Dichloro-2-butene	75	11.493	11.498	(1.134)	532912	200.000	260(A)
$	79	Bromofluorobenzene	95	11.601	11.606	(1.145)	386637	50.0000	52
	80	1,1,2,2-Tetrachloroethane	83	11.778	11.774	(0.908)	1355682	200.000	200(A)
	81	Bromobenzene	156	11.788	11.784	(0.909)	1223827	200.000	210(AQ)
	82	1,2,3-Trichloropropane	75	11.827	11.833	(0.912)	1686101	200.000	220(A)
	83	n-Propylbenzene	120	11.926	11.931	(0.920)	1162739	200.000	220(A)
	84	2-Chlorotoluene	126	12.024	12.030	(0.927)	1192270	200.000	220(A)
	85	1,3,5-Trimethylbenzene	105	12.133	12.138	(0.935)	3441165	200.000	210(A)
	86	4-Chlorotoluene	126	12.152	12.148	(0.937)	1219126	200.000	210(A)
M	94	Xylene (Total)	106				5429330	600.000	640
	87	tert-Butylbenzene	119	12.517	12.522	(0.965)	3482320	200.000	200
	88	1,2,4-Trimethylbenzene	105	12.576	12.572	(0.970)	3528009	200.000	210(A)
	89	sec-Butylbenzene	105	12.773	12.778	(0.985)	4155087	200.000	220(A)
	90	1,3-Dichlorobenzene	146	12.891	12.897	(0.994)	2136087	200.000	210(A)
	91	4-Isopropyltoluene	119	12.940	12.946	(0.998)	3370083	200.000	210(A)
*	92	1,4-Dichlorobenzene-d4	152	12.970	12.966	(1.000)	380713	50.0000	(Q)
	93	1,4-Dichlorobenzene	146	12.990	12.995	(1.002)	2203041	200.000	210(A)
	95	n-Butylbenzene	91	13.403	13.409	(1.033)	2792841	200.000	210(A)
	96	1,2-Dichlorobenzene	146	13.413	13.419	(1.034)	2028548	200.000	210(A)
	97	Hexachloroethane	117	13.709	13.714	(1.057)	807377	200.000	220(A)
	98	1,2-Dibromo-3-chloropropane	75	14.280	14.285	(1.101)	209404	200.000	230(A)
	99	1,2,4-Trichlorobenzene	180	15.186	15.192	(1.171)	936233	200.000	230(A)
	100	Hexachlorobutadiene	225	15.373	15.379	(1.185)	322893	200.000	200
	101	Naphthalene	128	15.442	15.448	(1.191)	2787202	200.000	260(A)
	102	1,2,3-Trichlorobenzene	180	15.698	15.704	(1.210)	781012	200.000	240(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\Avogadro\Organics\V1.I\110505.B\V1M1017.D
Date : 05-MAY-2011 12:45
Client ID: VSTD2001M
Instrument: V1.i
Sample Info: 5ML,VSTD2001M,VSTD2001M
Purge Volume: 5.0
Operator: SZ SRC: SZ
Column phase: DB-624
Column diameter: 0.25



7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Instrument ID: V1 Calibration Date: 05/16/2011 Time: 9:22

Lab File ID: V1M1161.D Init. Calib. Date(s): 05/05/2011 05/05/2011

EPA Sample No.(VSTD#####) VSTD0501T Init. Calib. Time(s): 10:41 12:45

Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	$\overline{RRF}$	RRF050	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.245	0.234	0.100	-4.4	20.0
Chloromethane	0.449	0.457	0.010	2.0	20.0
Vinyl chloride	0.322	0.318	0.010	-1.1	20.0
Bromomethane	0.201	0.213	0.010	6.2	20.0
Chloroethane	0.167	0.177	0.010	6.3	20.0
Trichlorofluoromethane	0.322	0.284	0.010	-11.6	20.0
1,1-Dichloroethene	0.256	0.255	0.100	-0.6	20.0
Acetone	0.054	0.036	0.010	-33.1	20.0
Iodomethane	0.437	0.444	0.010	1.5	20.0
Carbon disulfide	0.843	0.811	0.010	-3.7	20.0
Methylene chloride	0.259	0.283	0.010	9.6	20.0
trans-1,2-Dichloroethene	0.261	0.265	0.010	1.3	20.0
Methyl tert-butyl ether	0.611	0.638	0.010	4.3	20.0
1,1-Dichloroethane	0.547	0.545	0.010	-0.3	20.0
Vinyl acetate	1.653	1.762	0.010	6.5	20.0
2-Butanone	0.038	0.032	0.010	-15.3	20.0
cis-1,2-Dichloroethene	0.280	0.280	0.010	0.2	20.0
2,2-Dichloropropane	0.173	0.152	0.010	-11.9	20.0
Bromochloromethane	0.158	0.172	0.010	8.6	20.0
Chloroform	0.433	0.443	0.010	2.3	20.0
1,1,1-Trichloroethane	0.273	0.248	0.010	-8.9	20.0
1,1-Dichloropropene	0.116	0.115	0.010	-1.2	20.0
Carbon tetrachloride	0.285	0.274	0.010	-3.7	20.0
1,2-Dichloroethane	0.373	0.383	0.010	2.6	20.0
Benzene	0.939	0.938	0.010	-0.2	20.0
Trichloroethene	0.276	0.257	0.010	-6.7	20.0
1,2-Dichloropropane	0.314	0.314	0.010	-0.2	20.0
Dibromomethane	0.182	0.186	0.010	2.6	20.0
Bromodichloromethane	0.331	0.345	0.010	4.4	20.0
cis-1,3-Dichloropropene	0.431	0.453	0.010	5.1	20.0
4-Methyl-2-pentanone	0.460	0.473	0.010	2.7	20.0
Toluene	0.942	0.909	0.010	-3.5	20.0
trans-1,3-Dichloropropene	0.391	0.412	0.010	5.3	20.0
1,1,2-Trichloroethane	0.222	0.221	0.010	-0.6	20.0
1,3-Dichloropropane	0.555	0.550	0.010	-1.0	20.0
Tetrachloroethene	0.266	0.241	0.010	-9.4	20.0
2-Hexanone	0.485	0.419	0.010	-13.5	20.0
Dibromochloromethane	0.421	0.435	0.010	3.4	20.0
1,2-Dibromoethane	0.369	0.383	0.010	3.9	20.0
Chlorobenzene	0.938	0.890	0.010	-5.1	20.0

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Instrument ID: V1 Calibration Date: 05/16/2011 Time: 9:22

Lab File ID: V1M1161.D Init. Calib. Date(s): 05/05/2011 05/05/2011

EPA Sample No.(VSTD#####) VSTD0501T Init. Calib. Time(s): 10:41 12:45

Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	$\overline{RRF}$	RRF050	MIN RRF	%D	MAX %D
1,1,1,2-Tetrachloroethane	0.370	0.363	0.010	-2.1	20.0
Ethylbenzene	0.466	0.422	0.010	-9.4	20.0
m,p-Xylene	0.576	0.524	0.010	-9.1	20.0
o-Xylene	0.557	0.508	0.010	-8.8	20.0
Xylene (Total)	0.570	0.519	0.010	-9.0	20.0
Styrene	0.930	0.880	0.010	-5.4	20.0
Bromoform	0.236	0.253	0.010	7.4	20.0
Isopropylbenzene	1.322	1.113	0.300	-15.8	20.0
1,1,2,2-Tetrachloroethane	0.870	0.924	0.300	6.2	20.0
Bromobenzene	0.776	0.792	0.010	2.1	20.0
1,2,3-Trichloropropane	1.016	1.089	0.010	7.2	20.0
n-Propylbenzene	0.699	0.603	0.010	-13.7	20.0
2-Chlorotoluene	0.718	0.685	0.010	-4.6	20.0
1,3,5-Trimethylbenzene	2.154	1.910	0.010	-11.4	20.0
4-Chlorotoluene	0.762	0.742	0.010	-2.6	20.0
tert-Butylbenzene	2.241	1.922	0.010	-14.2	20.0
1,2,4-Trimethylbenzene	2.232	1.973	0.010	-11.6	20.0
sec-Butylbenzene	2.531	2.063	0.010	-18.5	20.0
4-Isopropyltoluene	2.065	1.654	0.010	-19.9	20.0
1,3-Dichlorobenzene	1.319	1.272	0.010	-3.5	20.0
1,4-Dichlorobenzene	1.353	1.288	0.010	-4.8	20.0
n-Butylbenzene	1.726	1.306	0.100	-24.4	20.0
1,2-Dichlorobenzene	1.278	1.214	0.010	-5.0	20.0
1,2-Dibromo-3-chloropropane	0.121	0.127	0.010	4.5	20.0
1,2,4-Trichlorobenzene	0.537	0.426	0.010	-20.8	20.0
Hexachlorobutadiene	0.208	0.141	0.010	-32.2	20.0
1,2,3-Trichlorobenzene	0.428	0.358	0.010	-16.4	20.0
Naphthalene	1.435	1.709	0.010	19.1	20.0

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Instrument ID: V1 Calibration Date: 05/16/2011 Time: 9:22

Lab File ID: V1M1161.D Init. Calib. Date(s): 05/05/2011 05/05/2011

EPA Sample No.(VSTD#####) VSTD0501T Init. Calib. Time(s): 10:41 12:45

Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	$\overline{RRF}$	RRF050	MIN RRF	%D	MAX %D
Dibromofluoromethane	0.295	0.309	0.010	4.6	20.0
1,2-Dichloroethane-d4	0.061	0.062	0.010	1.8	20.0
Toluene-d8	1.205	1.219	0.010	1.1	20.0
Bromofluorobenzene	0.497	0.487	0.010	-2.0	20.0

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Instrument ID: V1 Calibration Date: 05/17/2011 Time: 8:26

Lab File ID: V1M1192.D Init. Calib. Date(s): 05/05/2011 05/05/2011

EPA Sample No.(VSTD#####) VSTD0501U Init. Calib. Time(s): 10:41 12:45

Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	$\overline{RRF}$	RRF050	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.245	0.182	0.100	-26.0	20.0
Chloromethane	0.449	0.419	0.010	-6.6	20.0
Vinyl chloride	0.322	0.277	0.010	-13.9	20.0
Bromomethane	0.201	0.200	0.010	-0.3	20.0
Chloroethane	0.167	0.171	0.010	2.4	20.0
Trichlorofluoromethane	0.322	0.214	0.010	-33.5	20.0
1,1-Dichloroethene	0.256	0.212	0.100	-17.1	20.0
Acetone	0.054	0.061	0.010	12.9	20.0
Iodomethane	0.437	0.443	0.010	1.3	20.0
Carbon disulfide	0.843	0.744	0.010	-11.8	20.0
Methylene chloride	0.259	0.250	0.010	-3.1	20.0
trans-1,2-Dichloroethene	0.261	0.252	0.010	-3.4	20.0
Methyl tert-butyl ether	0.611	0.671	0.010	9.8	20.0
1,1-Dichloroethane	0.547	0.529	0.010	-3.2	20.0
Vinyl acetate	1.653	1.821	0.010	10.1	20.0
2-Butanone	0.038	0.041	0.010	7.1	20.0
cis-1,2-Dichloroethene	0.280	0.273	0.010	-2.4	20.0
2,2-Dichloropropane	0.173	0.168	0.010	-3.0	20.0
Bromochloromethane	0.158	0.169	0.010	7.0	20.0
Chloroform	0.433	0.441	0.010	1.8	20.0
1,1,1-Trichloroethane	0.273	0.254	0.010	-6.8	20.0
1,1-Dichloropropene	0.116	0.104	0.010	-10.4	20.0
Carbon tetrachloride	0.285	0.248	0.010	-12.7	20.0
1,2-Dichloroethane	0.373	0.398	0.010	6.5	20.0
Benzene	0.939	0.921	0.010	-2.0	20.0
Trichloroethene	0.276	0.256	0.010	-7.0	20.0
1,2-Dichloropropane	0.314	0.322	0.010	2.6	20.0
Dibromomethane	0.182	0.187	0.010	3.1	20.0
Bromodichloromethane	0.331	0.352	0.010	6.3	20.0
cis-1,3-Dichloropropene	0.431	0.463	0.010	7.5	20.0
4-Methyl-2-pentanone	0.460	0.533	0.010	15.9	20.0
Toluene	0.942	0.913	0.010	-3.1	20.0
trans-1,3-Dichloropropene	0.391	0.427	0.010	9.2	20.0
1,1,2-Trichloroethane	0.222	0.240	0.010	8.0	20.0
1,3-Dichloropropane	0.555	0.565	0.010	1.7	20.0
Tetrachloroethene	0.266	0.223	0.010	-16.2	20.0
2-Hexanone	0.485	0.526	0.010	8.5	20.0
Dibromochloromethane	0.421	0.439	0.010	4.4	20.0
1,2-Dibromoethane	0.369	0.401	0.010	8.9	20.0
Chlorobenzene	0.938	0.863	0.010	-7.9	20.0

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Instrument ID: V1 Calibration Date: 05/17/2011 Time: 8:26

Lab File ID: V1M1192.D Init. Calib. Date(s): 05/05/2011 05/05/2011

EPA Sample No.(VSTD#####) VSTD0501U Init. Calib. Time(s): 10:41 12:45

Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	$\overline{RRF}$	RRF050	MIN RRF	%D	MAX %D
1,1,1,2-Tetrachloroethane	0.370	0.376	0.010	1.6	20.0
Ethylbenzene	0.466	0.417	0.010	-10.4	20.0
m,p-Xylene	0.576	0.525	0.010	-8.9	20.0
o-Xylene	0.557	0.530	0.010	-5.0	20.0
Xylene (Total)	0.570	0.527	0.010	-7.6	20.0
Styrene	0.930	0.886	0.010	-4.8	20.0
Bromoform	0.236	0.266	0.010	12.7	20.0
Isopropylbenzene	1.322	1.171	0.300	-11.4	20.0
1,1,2,2-Tetrachloroethane	0.870	0.949	0.300	9.2	20.0
Bromobenzene	0.776	0.778	0.010	0.3	20.0
1,2,3-Trichloropropane	1.016	1.134	0.010	11.7	20.0
n-Propylbenzene	0.699	0.649	0.010	-7.1	20.0
2-Chlorotoluene	0.718	0.701	0.010	-2.4	20.0
1,3,5-Trimethylbenzene	2.154	2.039	0.010	-5.4	20.0
4-Chlorotoluene	0.762	0.740	0.010	-2.8	20.0
tert-Butylbenzene	2.241	2.079	0.010	-7.2	20.0
1,2,4-Trimethylbenzene	2.232	2.138	0.010	-4.2	20.0
sec-Butylbenzene	2.531	2.224	0.010	-12.1	20.0
4-Isopropyltoluene	2.065	1.879	0.010	-9.0	20.0
1,3-Dichlorobenzene	1.319	1.280	0.010	-2.9	20.0
1,4-Dichlorobenzene	1.353	1.355	0.010	0.1	20.0
n-Butylbenzene	1.726	1.519	0.100	-12.0	20.0
1,2-Dichlorobenzene	1.278	1.309	0.010	2.4	20.0
1,2-Dibromo-3-chloropropane	0.121	0.128	0.010	5.1	20.0
1,2,4-Trichlorobenzene	0.537	0.500	0.010	-6.9	20.0
Hexachlorobutadiene	0.208	0.180	0.010	-13.2	20.0
1,2,3-Trichlorobenzene	0.428	0.417	0.010	-2.5	20.0
Naphthalene	1.435	1.502	0.010	4.6	20.0

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Instrument ID: V1 Calibration Date: 05/17/2011 Time: 8:26

Lab File ID: V1M1192.D Init. Calib. Date(s): 05/05/2011 05/05/2011

EPA Sample No.(VSTD#####) VSTD0501U Init. Calib. Time(s): 10:41 12:45

Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	$\overline{RRF}$	RRF050	MIN RRF	%D	MAX %D
Dibromofluoromethane	0.295	0.302	0.010	2.5	20.0
1,2-Dichloroethane-d4	0.061	0.062	0.010	1.6	20.0
Toluene-d8	1.205	1.164	0.010	-3.4	20.0
Bromofluorobenzene	0.497	0.500	0.010	0.6	20.0

Data File: \\avogadro\organics\V1.I\110516.B\V1M1161.D
Report Date: 17-May-2011 11:35

Mitkem Laboratories

Method 8260 Water and Medium Soil

Data file : \\avogadro\organics\V1.I\110516.B\V1M1161.D
Lab Smp Id: VSTD0501T Client Smp ID: VSTD0501T
Inj Date : 16-MAY-2011 09:22
Operator : SZ SRC: SZ Inst ID: V1.i
Smp Info : 5ML,VSTD0501T,VSTD0501T
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\V1.I\110516.B\v18260Gadd.m
Meth Date : 17-May-2011 11:20 vbrizard Quant Type: ISTD
Cal Date : 05-MAY-2011 12:19 Cal File: V1M1016.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: TARGET115

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1	Dichlorodifluoromethane	85	1.702	1.703	(0.264)	217334	50.0000	48
2	Freon114	85	1.850	1.851	(0.287)	181569	50.0000	44
3	Chloromethane	50	1.909	1.900	(0.296)	423878	50.0000	51
4	Vinyl Chloride	62	2.027	2.028	(0.314)	295116	50.0000	49
5	Bromomethane	94	2.401	2.402	(0.372)	197535	50.0000	53
6	Chloroethane	64	2.519	2.520	(0.391)	164364	50.0000	53
7	Trichlorofluoromethane	101	2.785	2.786	(0.432)	263572	50.0000	44(Q)
126	Ethanol	46	2.973	2.973	(0.461)	197091	5000.00	4900(A)
8	Ether	59	3.091	3.092	(0.479)	284211	50.0000	53
9	Acrolein	56	3.219	3.220	(0.499)	353781	250.000	350(A)
10	1,1-Dichloroethene	96	3.357	3.348	(0.520)	235939	50.0000	50
11	1,1,2-Trichloro-1,2,2-Trifluo	101	3.367	3.348	(0.522)	196285	50.0000	51
12	Acetone	58	3.386	3.377	(0.525)	33549	50.0000	33
13	Iodomethane	142	3.514	3.515	(0.545)	411221	50.0000	51
14	Carbon Disulfide	76	3.573	3.574	(0.554)	751673	50.0000	48
15	Acetonitrile	41	3.701	3.702	(0.574)	1356855	500.000	540(A)
16	Allyl Chloride	39	3.701	3.702	(0.574)	505858	50.0000	50
17	Methyl Acetate	43	3.731	3.732	(0.579)	411344	50.0000	52
19	tert-Butanol	59	3.958	3.949	(0.614)	99407	100.000	96
18	Methylene Chloride	84	3.859	3.860	(0.598)	262572	50.0000	55
20	Acrylonitrile	53	4.086	4.086	(0.634)	151211	50.0000	55
21	trans-1,2-Dichloroethene	96	4.125	4.126	(0.640)	245288	50.0000	51

Data File: \\avogadro\organics\V1.I\110516.B\V1M1161.D
Report Date: 17-May-2011 11:35

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	22 Methyl tert-butyl ether	73	4.135	4.125	(0.641)	590946	50.0000	52
	23 1,1-Dichloroethane	63	4.568	4.569	(0.708)	504959	50.0000	50
	24 Vinyl acetate	43	4.627	4.628	(0.717)	1632689	50.0000	53
	25 Diisopropyl Ether	45	4.647	4.648	(0.721)	1574289	50.0000	53
	26 2-Chloro-1,3-Butadiene	53	4.667	4.668	(0.724)	465970	50.0000	50
	27 Ethyl tert-butyl ether	59	5.031	5.032	(0.780)	782453	50.0000	51
	28 cis-1,2-Dichloroethene	96	5.189	5.190	(0.805)	259908	50.0000	50
	29 2,2-Dichloropropane	77	5.189	5.190	(0.805)	141192	50.0000	44
	30 2-Butanone	72	5.199	5.199	(0.806)	29923	50.0000	42
	32 Propionitrile	54	5.248	5.249	(0.814)	501711	500.000	520(A)
	33 Methacrylonitrile	41	5.425	5.416	(0.841)	608586	100.000	110
	34 Bromochloromethane	128	5.445	5.436	(0.844)	159104	50.0000	54
	31 Tetrahydrofuran	72	5.494	5.495	(0.852)	68083	100.000	110
	35 Chloroform	83	5.524	5.524	(0.856)	410771	50.0000	51
$	36 Dibromofluoromethane	113	5.701	5.701	(0.884)	286169	50.0000	52
	37 1,1,1-Trichloroethane	97	5.740	5.731	(0.890)	230084	50.0000	46
	38 Cyclohexane	56	5.809	5.800	(0.901)	388560	50.0000	46
	39 1,1-Dichloropropene	110	5.918	5.909	(0.918)	106372	50.0000	49
	40 Carbon Tetrachloride	117	5.927	5.918	(0.919)	254092	50.0000	48
	41 Isobutyl Alcohol	43	6.016	6.017	(0.933)	377287	1000.00	1000(A)
$	42 1,2-Dichloroethane-d4	102	6.065	6.076	(0.940)	57463	50.0000	51
	43 Benzene	78	6.144	6.145	(0.953)	869131	50.0000	50
	44 1,2-Dichloroethane	62	6.154	6.145	(0.954)	354887	50.0000	51
	45 tert-Amyl methyl ether	73	6.262	6.263	(0.971)	562237	50.0000	50
M	50 1,2-Dichloroethene (Total)	96				505196	100.000	100
*	46 Fluorobenzene	96	6.449	6.450	(1.000)	926804	50.0000	
	47 Trichloroethene	130	6.863	6.864	(1.064)	238431	50.0000	47
	48 Methylcyclohexane	83	7.100	7.100	(1.101)	218460	50.0000	39
	49 1,2-Dichloropropane	63	7.119	7.110	(1.104)	290660	50.0000	50
	51 Methyl Methacrylate	69	7.247	7.248	(1.124)	205329	50.0000	53
	52 Dibromomethane	93	7.257	7.248	(1.125)	172603	50.0000	51
	53 1,4-Dioxane	88	7.277	7.278	(1.128)	14920	1000.00	960(A)
	54 Bromodichloromethane	83	7.434	7.425	(1.153)	320047	50.0000	52
	55 2-Chloroethyl vinyl ether	63	7.799	7.780	(1.209)	93291	50.0000	58
	56 cis-1,3-Dichloropropene	75	7.976	7.967	(1.237)	419720	50.0000	52
	57 4-Methyl-2-pentanone	43	8.153	8.144	(1.264)	438441	50.0000	51
$	58 Toluene-d8	98	8.311	8.302	(0.819)	803568	50.0000	50
	59 Toluene	91	8.390	8.381	(1.301)	842314	50.0000	48
	60 trans-1,3-Dichloropropene	75	8.646	8.637	(1.341)	381981	50.0000	53
	61 Ethyl Methacrylate	69	8.764	8.755	(1.359)	306813	50.0000	52
	62 1,1,2-Trichloroethane	97	8.882	8.864	(1.377)	204808	50.0000	50
	63 Tetrachloroethene	164	9.079	9.070	(0.895)	159016	50.0000	45
	64 1,3-Dichloropropane	76	9.089	9.080	(0.896)	362479	50.0000	50
	65 2-Hexanone	43	9.198	9.189	(0.907)	276454	50.0000	43
	66 Dibromochloromethane	129	9.385	9.376	(0.925)	286891	50.0000	52
	67 1,2-Dibromoethane	107	9.532	9.523	(0.940)	252514	50.0000	52
	69 1-Chlorohexane	91	10.153	10.134	(1.001)	249885	50.0000	42
*	68 Chlorobenzene-d5	117	10.143	10.134	(1.000)	659061	50.0000	
	70 Chlorobenzene	112	10.173	10.164	(1.003)	586368	50.0000	47
	71 1,1,1,2-Tetrachloroethane	131	10.281	10.262	(1.014)	238959	50.0000	49
	72 Ethylbenzene	106	10.320	10.311	(1.017)	277940	50.0000	45
	73 m,p-Xylene	106	10.468	10.459	(1.032)	690788	100.000	91
	74 o-Xylene	106	10.970	10.961	(1.082)	334966	50.0000	46
	75 Styrene	104	10.980	10.971	(1.083)	579908	50.0000	47

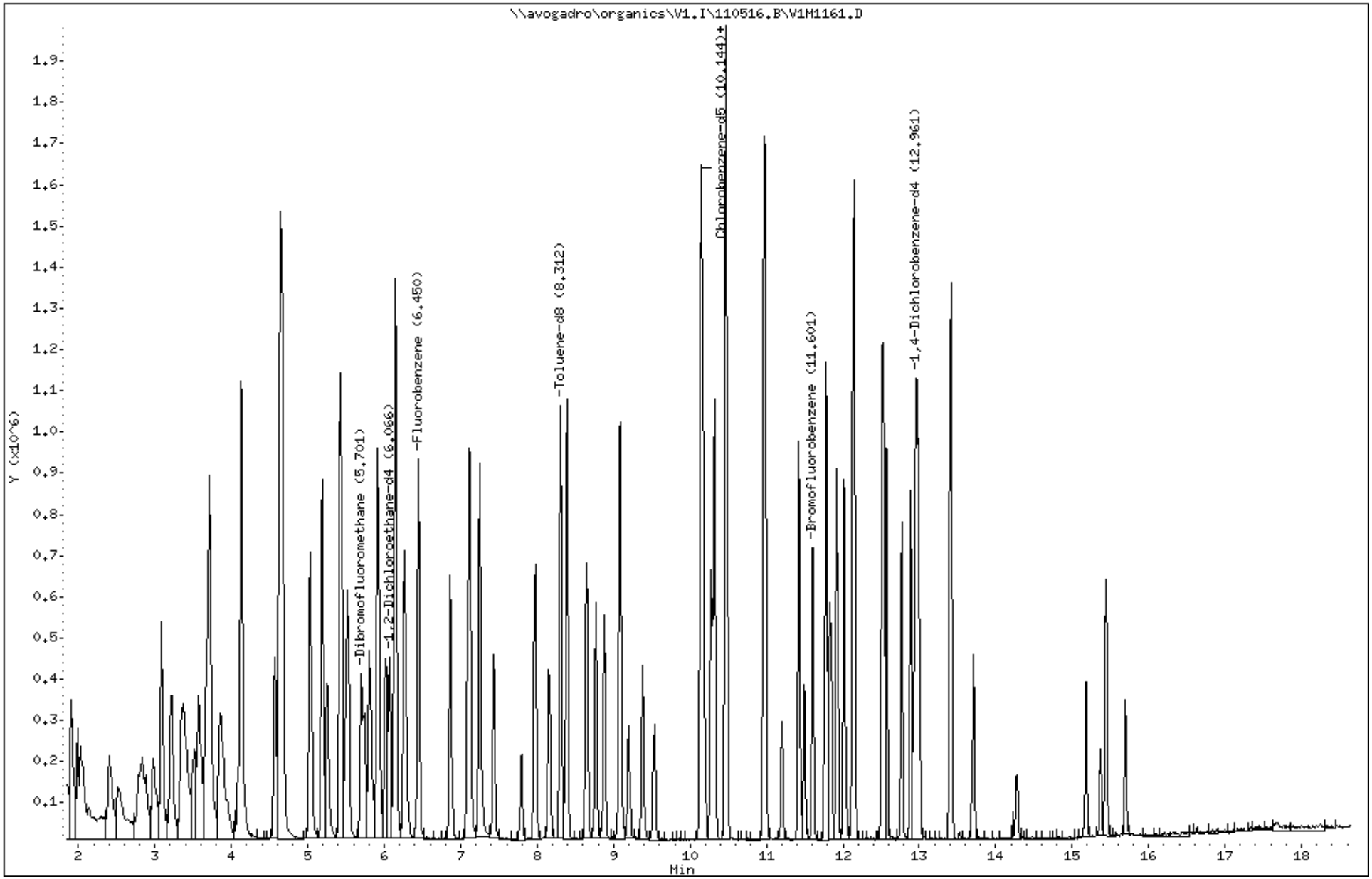
Data File: \\avogadro\organics\V1.I\110516.B\V1M1161.D
Report Date: 17-May-2011 11:35

							AMOUNTS	
		QUANT SIG					CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
	76 Bromoform	173	11.207	11.188	(1.105)	167037	50.0000	54
	77 Isopropylbenzene	105	11.424	11.414	(1.126)	733332	50.0000	42
	78 trans-1,4-Dichloro-2-butene	75	11.492	11.483	(1.133)	101883	50.0000	55
$	79 Bromofluorobenzene	95	11.601	11.591	(1.144)	321142	50.0000	49
	80 1,1,2,2-Tetrachloroethane	83	11.778	11.759	(0.908)	282572	50.0000	53
	81 Bromobenzene	156	11.788	11.779	(0.909)	242321	50.0000	51
	82 1,2,3-Trichloropropane	75	11.827	11.818	(0.912)	333101	50.0000	54
	83 n-Propylbenzene	120	11.926	11.917	(0.920)	184425	50.0000	43
	84 2-Chlorotoluene	126	12.024	12.006	(0.927)	209576	50.0000	48
	85 1,3,5-Trimethylbenzene	105	12.133	12.123	(0.935)	584238	50.0000	44
	86 4-Chlorotoluene	126	12.152	12.134	(0.937)	227010	50.0000	49
M	94 Xylene (Total)	106				1025754	150.000	140
	87 tert-Butylbenzene	119	12.517	12.517	(0.965)	587910	50.0000	43
	88 1,2,4-Trimethylbenzene	105	12.576	12.567	(0.970)	603547	50.0000	44
	89 sec-Butylbenzene	105	12.773	12.764	(0.985)	631230	50.0000	41
	90 1,3-Dichlorobenzene	146	12.891	12.882	(0.994)	389153	50.0000	48
	91 4-Isopropyltoluene	119	12.940	12.941	(0.998)	506081	50.0000	40
*	92 1,4-Dichlorobenzene-d4	152	12.970	12.961	(1.000)	305951	50.0000	
	93 1,4-Dichlorobenzene	146	12.990	12.990	(1.002)	394071	50.0000	48
	95 n-Butylbenzene	91	13.403	13.404	(1.033)	399492	50.0000	38
	96 1,2-Dichlorobenzene	146	13.413	13.414	(1.034)	371520	50.0000	48
	97 Hexachloroethane	117	13.709	13.700	(1.057)	121156	50.0000	41
	98 1,2-Dibromo-3-chloropropane	75	14.280	14.271	(1.101)	38843	50.0000	52
	99 1,2,4-Trichlorobenzene	180	15.186	15.187	(1.171)	130229	50.0000	40
	100 Hexachlorobutadiene	225	15.373	15.374	(1.185)	43114	50.0000	34
	101 Naphthalene	128	15.442	15.443	(1.191)	523012	50.0000	60
	102 1,2,3-Trichlorobenzene	180	15.698	15.699	(1.210)	109446	50.0000	42

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\avogadro\organics\V1.I\110516.B\V1M1161.D
Date : 16-MAY-2011 09:22
Client ID: VSTD0501T
Instrument: V1.i
Sample Info: 5ML,VSTD0501T,VSTD0501T
Purge Volume: 5.0
Operator: SZ SRC: SZ
Column phase: DB-624
Column diameter: 0.25



Data File: \\Avogadro\Organics\V1.I\110517.B\V1M1192.D
Report Date: 18-May-2011 13:43

Mitkem Laboratories

Method 8260 Water and Medium Soil

Data file : \\Avogadro\Organics\V1.I\110517.B\V1M1192.D
Lab Smp Id: VSTD0501U Client Smp ID: VSTD0501U
Inj Date : 17-MAY-2011 08:26
Operator : SZ SRC: SZ Inst ID: V1.i
Smp Info : 5ML,VSTD0501U,VSTD0501U
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\V1.I\110517.B\v18260Gadd.m
Meth Date : 18-May-2011 13:41 amarquis Quant Type: ISTD
Cal Date : 05-MAY-2011 12:19 Cal File: V1M1016.D
Als bottle: 29 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: TARGET115

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1	Dichlorodifluoromethane	85	1.697	1.697	(0.264)	168144	50.0000	37
2	Freon114	85	1.835	1.840	(0.286)	153802	50.0000	38
3	Chloromethane	50	1.894	1.894	(0.295)	387983	50.0000	47
4	Vinyl Chloride	62	2.022	2.012	(0.315)	256733	50.0000	43
5	Bromomethane	94	2.397	2.386	(0.373)	185441	50.0000	50
6	Chloroethane	64	2.505	2.504	(0.390)	158197	50.0000	51
7	Trichlorofluoromethane	101	2.781	2.770	(0.433)	198056	50.0000	33
126	Ethanol	46	2.958	2.953	(0.460)	256726	5000.00	6400(AQ)
8	Ether	59	3.066	3.061	(0.477)	308384	50.0000	58(Q)
9	Acrolein	56	3.194	3.189	(0.497)	367308	250.000	370(A)
10	1,1-Dichloroethene	96	3.332	3.322	(0.519)	196558	50.0000	41
11	1,1,2-Trichloro-1,2,2-Trifluo	101	3.332	3.327	(0.519)	170354	50.0000	44
12	Acetone	58	3.352	3.342	(0.522)	56620	50.0000	56
13	Iodomethane	142	3.500	3.480	(0.545)	410068	50.0000	51
14	Carbon Disulfide	76	3.559	3.549	(0.554)	688786	50.0000	44
15	Acetonitrile	41	3.687	3.682	(0.574)	1464843	500.000	580(AQ)
16	Allyl Chloride	39	3.687	3.682	(0.574)	434996	50.0000	42
17	Methyl Acetate	43	3.707	3.702	(0.577)	464322	50.0000	59
19	tert-Butanol	59	3.933	3.928	(0.612)	128249	100.000	120
18	Methylene Chloride	84	3.844	3.824	(0.598)	232048	50.0000	48
20	Acrylonitrile	53	4.061	4.056	(0.632)	171057	50.0000	62
21	trans-1,2-Dichloroethene	96	4.110	4.100	(0.640)	233810	50.0000	48

Data File: \\Avogadro\Organics\V1.I\110517.B\V1M1192.D
Report Date: 18-May-2011 13:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	22 Methyl tert-butyl ether	73	4.110	4.100	(0.640)	621727	50.0000	55
	23 1,1-Dichloroethane	63	4.544	4.533	(0.707)	490349	50.0000	48
	24 Vinyl acetate	43	4.603	4.583	(0.716)	1687064	50.0000	55
	25 Diisopropyl Ether	45	4.623	4.618	(0.719)	1576188	50.0000	53
	26 2-Chloro-1,3-Butadiene	53	4.652	4.637	(0.724)	425324	50.0000	46
	27 Ethyl tert-butyl ether	59	5.007	5.002	(0.779)	821628	50.0000	53
	28 cis-1,2-Dichloroethene	96	5.154	5.144	(0.802)	252950	50.0000	49
	29 2,2-Dichloropropane	77	5.164	5.154	(0.804)	155363	50.0000	48
	30 2-Butanone	72	5.164	5.164	(0.804)	37814	50.0000	54
	32 Propionitrile	54	5.223	5.218	(0.813)	600052	500.000	620(A)
	33 Methacrylonitrile	41	5.391	5.386	(0.839)	666244	100.000	120
	34 Bromochloromethane	128	5.420	5.400	(0.844)	156605	50.0000	53
	31 Tetrahydrofuran	72	5.470	5.465	(0.851)	76823	100.000	130
	35 Chloroform	83	5.499	5.489	(0.856)	408359	50.0000	51
$	36 Dibromofluoromethane	113	5.676	5.656	(0.884)	280163	50.0000	51
	37 1,1,1-Trichloroethane	97	5.716	5.696	(0.890)	235472	50.0000	47
	38 Cyclohexane	56	5.775	5.780	(0.899)	368458	50.0000	44
	39 1,1-Dichloropropene	110	5.893	5.883	(0.917)	96409	50.0000	45
	40 Carbon Tetrachloride	117	5.893	5.883	(0.917)	230194	50.0000	44
	41 Isobutyl Alcohol	43	5.992	5.987	(0.933)	469593	1000.00	1300(A)
$	42 1,2-Dichloroethane-d4	102	6.041	6.040	(0.940)	57346	50.0000	51
	43 Benzene	78	6.120	6.109	(0.952)	853229	50.0000	49
	44 1,2-Dichloroethane	62	6.130	6.119	(0.954)	368485	50.0000	53
	45 tert-Amyl methyl ether	73	6.238	6.243	(0.971)	612589	50.0000	55
M	50 1,2-Dichloroethene (Total)	96				486760	100.000	97
*	46 Fluorobenzene	96	6.425	6.415	(1.000)	926378	50.0000	
	47 Trichloroethene	130	6.839	6.828	(1.064)	237522	50.0000	46
	48 Methylcyclohexane	83	7.065	7.080	(1.100)	242286	50.0000	43
	49 1,2-Dichloropropane	63	7.085	7.085	(1.103)	298743	50.0000	51
	51 Methyl Methacrylate	69	7.223	7.218	(1.124)	227827	50.0000	59
	52 Dibromomethane	93	7.223	7.222	(1.124)	173525	50.0000	52
	53 1,4-Dioxane	88	7.243	7.247	(1.127)	25848	1000.00	1700(A)
	54 Bromodichloromethane	83	7.410	7.400	(1.153)	325844	50.0000	53
	55 2-Chloroethyl vinyl ether	63	7.765	7.769	(1.208)	88827	50.0000	56
	56 cis-1,3-Dichloropropene	75	7.942	7.941	(1.236)	428781	50.0000	54
	57 4-Methyl-2-pentanone	43	8.129	8.129	(1.265)	494212	50.0000	58
$	58 Toluene-d8	98	8.277	8.276	(0.819)	798863	50.0000	48
	59 Toluene	91	8.356	8.355	(1.300)	845894	50.0000	48
	60 trans-1,3-Dichloropropene	75	8.622	8.621	(1.342)	395735	50.0000	54
	61 Ethyl Methacrylate	69	8.740	8.745	(1.360)	325432	50.0000	55
	62 1,1,2-Trichloroethane	97	8.848	8.848	(1.377)	222447	50.0000	54
	63 Tetrachloroethene	164	9.045	9.045	(0.895)	153186	50.0000	42
	64 1,3-Dichloropropane	76	9.065	9.064	(0.897)	387707	50.0000	51
	65 2-Hexanone	43	9.163	9.173	(0.906)	361231	50.0000	54
	66 Dibromochloromethane	129	9.350	9.350	(0.925)	301581	50.0000	52(T)
	67 1,2-Dibromoethane	107	9.498	9.508	(0.940)	275460	50.0000	54
	69 1-Chlorohexane	91	10.119	10.124	(1.001)	264158	50.0000	42
*	68 Chlorobenzene-d5	117	10.109	10.108	(1.000)	686312	50.0000	
	70 Chlorobenzene	112	10.148	10.148	(1.004)	592537	50.0000	46
	71 1,1,1,2-Tetrachloroethane	131	10.247	10.246	(1.014)	258249	50.0000	51
	72 Ethylbenzene	106	10.296	10.295	(1.019)	286447	50.0000	45
	73 m,p-Xylene	106	10.444	10.443	(1.033)	720904	100.000	91
	74 o-Xylene	106	10.946	10.946	(1.083)	363530	50.0000	48
	75 Styrene	104	10.966	10.955	(1.085)	608072	50.0000	48

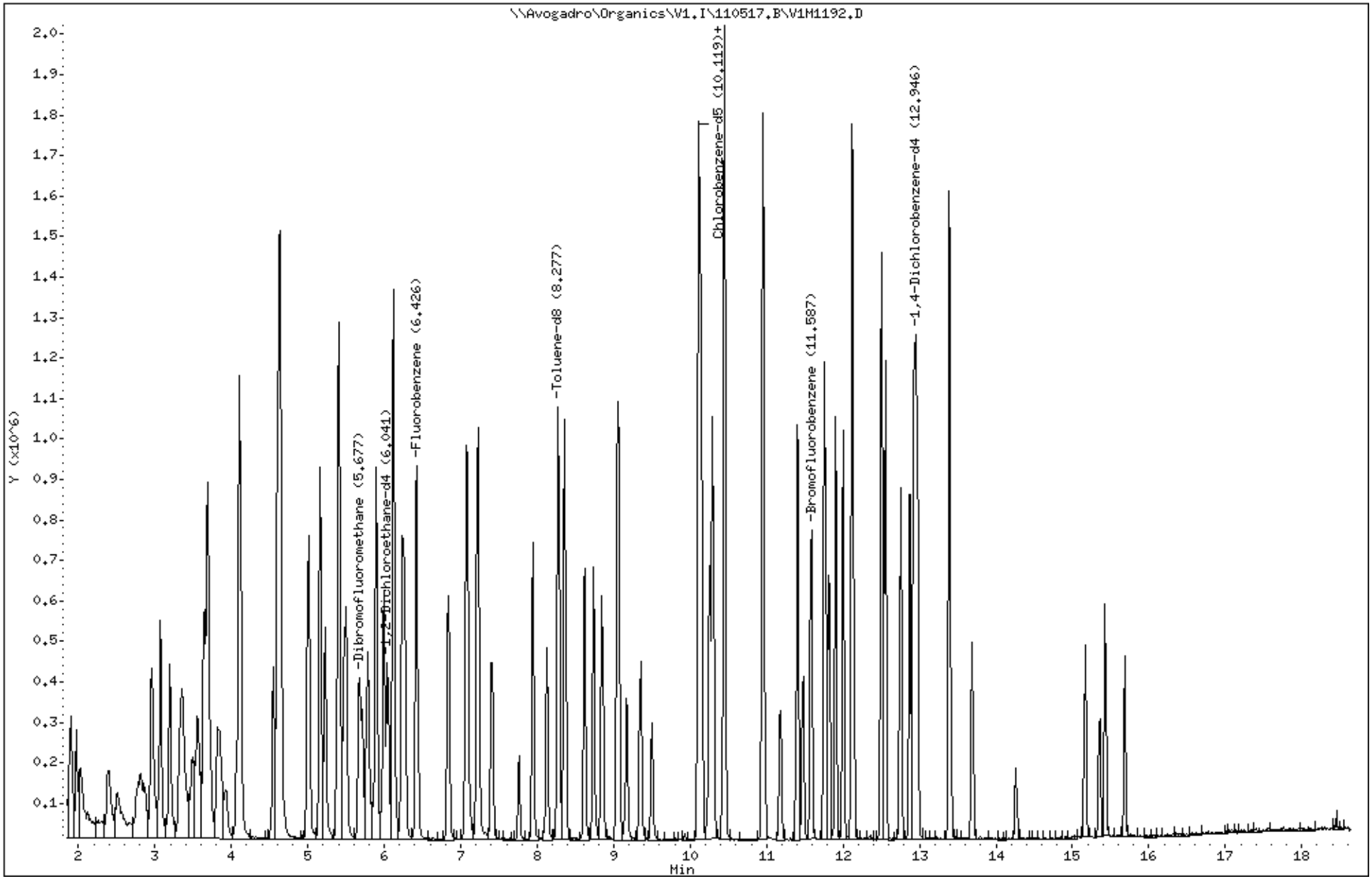
Data File: \\Avogadro\Organics\V1.I\110517.B\V1M1192.D
Report Date: 18-May-2011 13:43

			QUANT SIG					AMOUNTS	
								CAL-AMT	ON-COL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
	76	Bromoform	173	11.182	11.172	(1.106)	182481	50.0000	56(T)
	77	Isopropylbenzene	105	11.399	11.399	(1.128)	803976	50.0000	44
	78	trans-1,4-Dichloro-2-butene	75	11.478	11.473	(1.135)	110040	50.0000	58
$	79	Bromofluorobenzene	95	11.586	11.586	(1.146)	343311	50.0000	50
	80	1,1,2,2-Tetrachloroethane	83	11.754	11.753	(0.908)	306518	50.0000	54
	81	Bromobenzene	156	11.764	11.763	(0.909)	251195	50.0000	50
	82	1,2,3-Trichloropropane	75	11.813	11.802	(0.913)	366213	50.0000	56
	83	n-Propylbenzene	120	11.901	11.901	(0.919)	209548	50.0000	46
	84	2-Chlorotoluene	126	12.000	11.999	(0.927)	226166	50.0000	49
	85	1,3,5-Trimethylbenzene	105	12.118	12.118	(0.936)	658152	50.0000	47
	86	4-Chlorotoluene	126	12.128	12.128	(0.937)	238901	50.0000	48
M	94	Xylene (Total)	106				1084434	150.000	140
	87	tert-Butylbenzene	119	12.502	12.502	(0.966)	671059	50.0000	46
	88	1,2,4-Trimethylbenzene	105	12.552	12.551	(0.970)	690231	50.0000	48
	89	sec-Butylbenzene	105	12.749	12.758	(0.985)	717855	50.0000	44
	90	1,3-Dichlorobenzene	146	12.877	12.876	(0.995)	413332	50.0000	48
	91	4-Isopropyltoluene	119	12.926	12.925	(0.998)	606652	50.0000	45
*	92	1,4-Dichlorobenzene-d4	152	12.945	12.945	(1.000)	322830	50.0000	
	93	1,4-Dichlorobenzene	146	12.975	12.975	(1.002)	437369	50.0000	50
	95	n-Butylbenzene	91	13.389	13.388	(1.034)	490316	50.0000	44
	96	1,2-Dichlorobenzene	146	13.399	13.398	(1.035)	422476	50.0000	51
	97	Hexachloroethane	117	13.684	13.689	(1.057)	148180	50.0000	48
	98	1,2-Dibromo-3-chloropropane	75	14.255	14.265	(1.101)	41225	50.0000	52
	99	1,2,4-Trichlorobenzene	180	15.172	15.171	(1.172)	161434	50.0000	46
	100	Hexachlorobutadiene	225	15.359	15.358	(1.186)	58195	50.0000	43
	101	Naphthalene	128	15.428	15.437	(1.192)	484864	50.0000	52
	102	1,2,3-Trichlorobenzene	180	15.684	15.693	(1.212)	134701	50.0000	49

QC Flag Legend

T - Target compound detected outside RT window.
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\Avogadro\Organics\V1.I\110517.B\V1M1192.D
Date : 17-MAY-2011 08:26
Client ID: VSTD0501U
Instrument: V1.i
Sample Info: 5ML,VSTD0501U,VSTD0501U
Purge Volume: 5.0
Operator: SZ SRC: SZ
Column phase: DB-624
Column diameter: 0.25



Mitkem Laboratories

Data file : \\Avogadro\Organics\V1.I\110505.B\V1M1010.D
Lab Smp Id: BFB1M Client Smp ID: BFB1M
Inj Date : 05-MAY-2011 08:08
Operator : SZ SRC: SZ Inst ID: V1.i
Smp Info : 5ML,BFB1M,BFB1M
Misc Info :
Comment :
Method : \\Avogadro\Organics\V1.I\110505.B\bfb8260.m
Meth Date : 12-May-2011 15:36 mscarpaci Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Uf * Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Cpnd Variable		Local Compound Variable

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
5.968	6.000	(0.000)	95	493184			0.00- 100.00	100.00
5.968	6.000	(0.000)	50	112048			15.00- 40.00	22.72
5.968	6.000	(0.000)	75	202944			30.00- 60.00	41.15
5.968	6.000	(0.000)	96	31408			5.00- 9.00	6.37
5.968	6.000	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
5.968	6.000	(0.000)	174	329216			50.00- 0.00	66.75
5.968	6.000	(0.000)	175	26408			5.00- 9.00	8.02
5.968	6.000	(0.000)	176	322048			95.00- 101.00	97.82
5.968	6.000	(0.000)	177	21064			5.00- 9.00	6.54

Data File: \\Avogadro\Organics\V1.I\110505.B\V1M1010.D

Date : 05-MAY-2011 08:08

Client ID: BFB1M

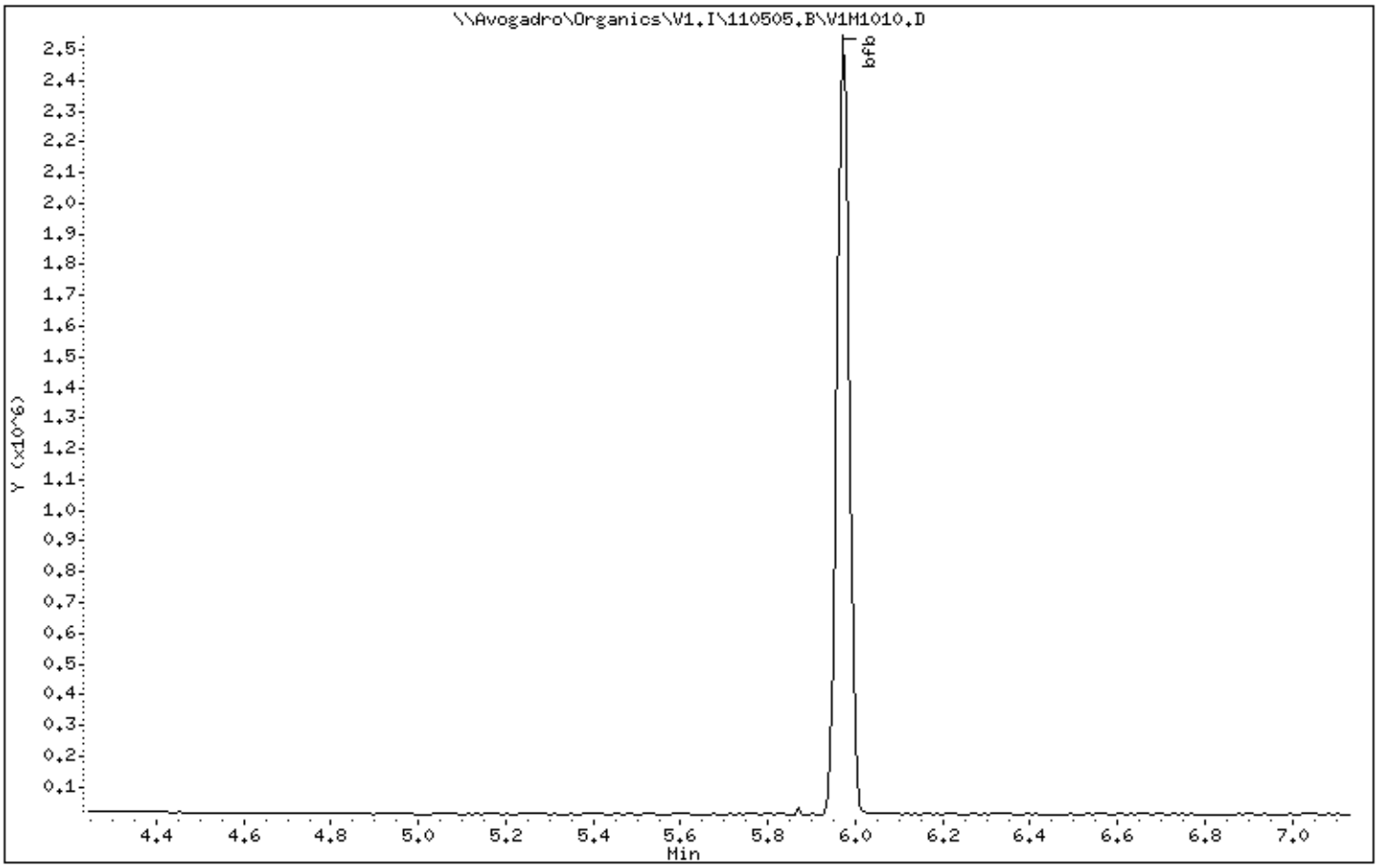
Instrument: V1.i

Sample Info: 5ML,BFB1M,BFB1M

Operator: SZ SRC: SZ

Column phase: DB-624

Column diameter: 0.25



Data File: \\Avogadro\Organics\V1.I\110505.B\V1M1010.D

Date : 05-MAY-2011 08:08

Client ID: BFB1M

Instrument: V1.i

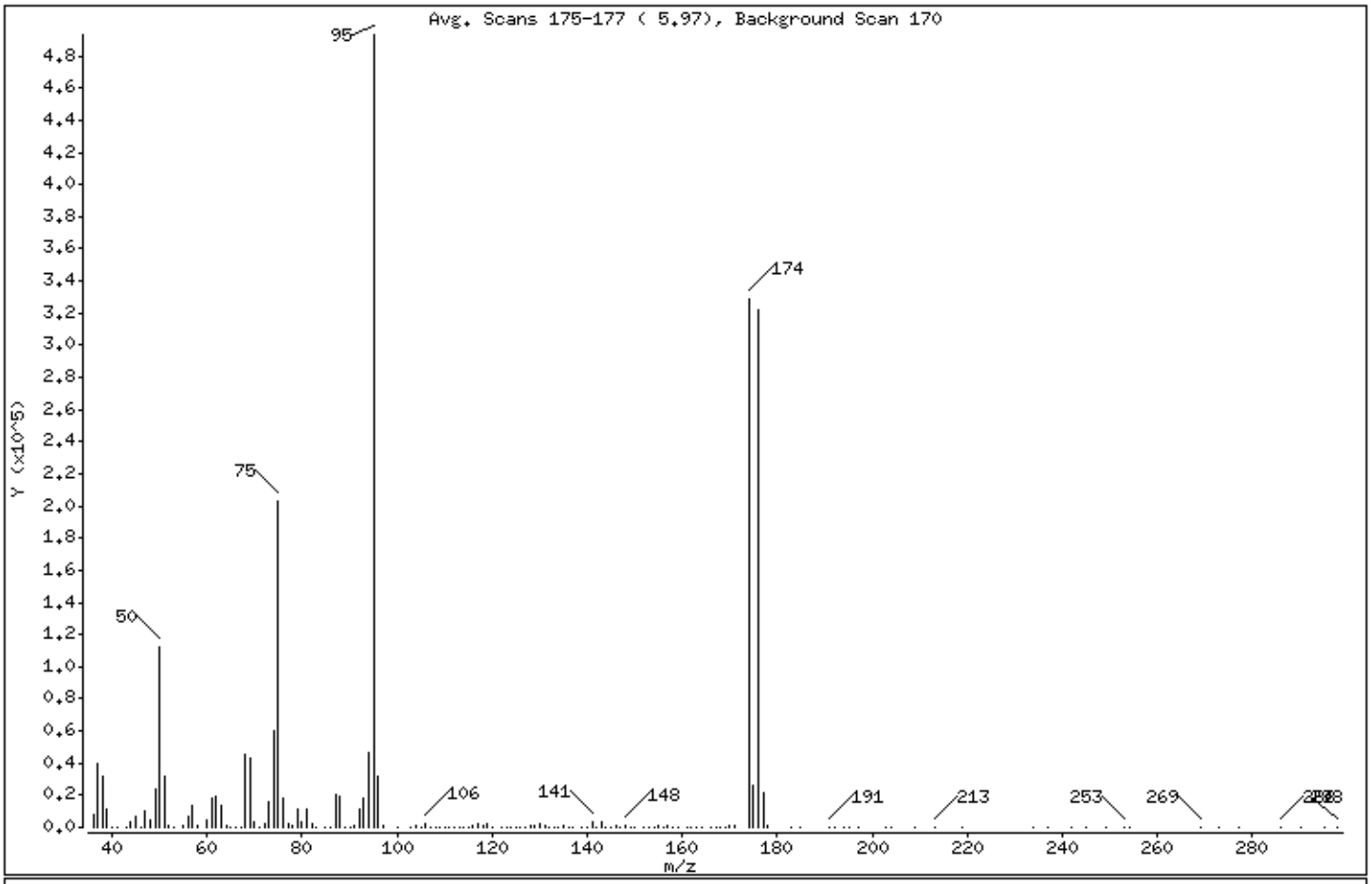
Sample Info: 5ML,BFB1M,BFB1M

Operator: SZ SRC: SZ

Column phase: DB-624

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	22.72
75	30.00 - 60.00% of mass 95	41.15
96	5.00 - 9.00% of mass 95	6.37
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	66.75
175	5.00 - 9.00% of mass 174	5.35 (8.02)
176	95.00 - 101.00% of mass 174	65.30 (97.82)
177	5.00 - 9.00% of mass 176	4.27 (6.54)

Date : 05-MAY-2011 08:08

Client ID: BFB1M Instrument: V1.i

Sample Info: 5ML,BFB1M,BFB1M

Operator: SZ SRC: SZ

Column phase: DB-624 Column diameter: 0.25

Data File: V1M1010.D
Spectrum: Avg. Scans 175-177 (5.97), Background Scan 170
Location of Maximum: 95.00
Number of points: 154

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	7614	78.00	1567	123.00	124	166.00	99
37.00	39736	79.00	11002	124.00	188	167.00	43
38.00	31816	80.00	3597	125.00	139	168.00	96
39.00	11524	81.00	11296	126.00	186	169.00	488
40.00	505	82.00	2293	127.00	93	170.00	621
41.00	286	83.00	141	128.00	1295	171.00	770
43.00	50	85.00	93	129.00	730	174.00	329216
44.00	3129	86.00	530	130.00	1756	175.00	26408
45.00	6535	87.00	20000	131.00	595	176.00	322048
46.00	319	88.00	19808	132.00	45	177.00	21064
47.00	10200	89.00	142	133.00	160	178.00	723
48.00	4197	90.00	108	134.00	138	183.00	35
49.00	23264	91.00	1029	135.00	612	185.00	44
50.00	112048	92.00	11115	136.00	67	191.00	127
51.00	31920	93.00	17584	137.00	530	192.00	47
52.00	1336	94.00	46440	139.00	275	194.00	79
53.00	190	95.00	493184	140.00	56	195.00	36
55.00	1632	96.00	31408	141.00	3651	197.00	35
56.00	7254	97.00	917	142.00	264	203.00	37
57.00	13384	100.00	71	143.00	3543	204.00	33
58.00	661	103.00	246	144.00	265	209.00	49
60.00	4355	104.00	1384	145.00	504	213.00	41
61.00	17768	105.00	486	146.00	579	219.00	40
62.00	18856	106.00	2060	147.00	382	234.00	41
63.00	13738	107.00	329	148.00	1123	237.00	39
64.00	1057	108.00	42	149.00	247	242.00	42
65.00	498	109.00	37	150.00	338	245.00	57
66.00	78	110.00	199	152.00	230	249.00	52
67.00	117	111.00	401	153.00	382	253.00	72
68.00	45416	112.00	199	154.00	75	254.00	36
69.00	43560	113.00	402	155.00	849	269.00	48
70.00	2836	114.00	41	156.00	118	273.00	41
71.00	46	115.00	502	157.00	752	277.00	35
72.00	1752	116.00	1437	158.00	156	286.00	85
73.00	16256	117.00	1789	159.00	431	290.00	61

Date : 05-MAY-2011 08:08

Client ID: BFB1M Instrument: V1.i

Sample Info: 5ML,BFB1M,BFB1M

Operator: SZ SRC: SZ

Column phase: DB-624 Column diameter: 0.25

Data File: V1M1010.D
Spectrum: Avg. Scans 175-177 (5.97), Background Scan 170
Location of Maximum: 95.00
Number of points: 154

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.00	59832	118.00	1507	161.00	445	295.00	74
75.00	202944	119.00	1890	162.00	48	298.00	34
76.00	18536	120.00	23	163.00	56		
77.00	2565	122.00	190	164.00	104		

Mitkem Laboratories

Data file : \\avogadro\organics\V1.I\110516.B\V1M1160.D
Lab Smp Id: BFB1T Client Smp ID: BFB1T
Inj Date : 16-MAY-2011 09:06
Operator : SZ SRC: SZ Inst ID: V1.i
Smp Info : 5ML,BFB1T,BFB1T
Misc Info :
Comment :
Method : \\Avogadro\Organics\V1.I\110516.B\bfb8260.m
Meth Date : 17-May-2011 11:20 vbrizard Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: TARGET115

Concentration Formula: Amt * DF * Uf * Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
5.983	6.000	(0.000)	95	531072			0.00- 100.00	100.00
5.983	6.000	(0.000)	50	107944			15.00- 40.00	20.33
5.983	6.000	(0.000)	75	210816			30.00- 60.00	39.70
5.983	6.000	(0.000)	96	34488			5.00- 9.00	6.49
5.983	6.000	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
5.983	6.000	(0.000)	174	396032			50.00- 0.00	74.57
5.983	6.000	(0.000)	175	32640			5.00- 9.00	8.24
5.983	6.000	(0.000)	176	397376			95.00- 101.00	100.34
5.983	6.000	(0.000)	177	25888			5.00- 9.00	6.51

Data File: \\avogadro\organics\V1.I\110516.B\V1M1160.D

Date : 16-MAY-2011 09:06

Client ID: BFB1T

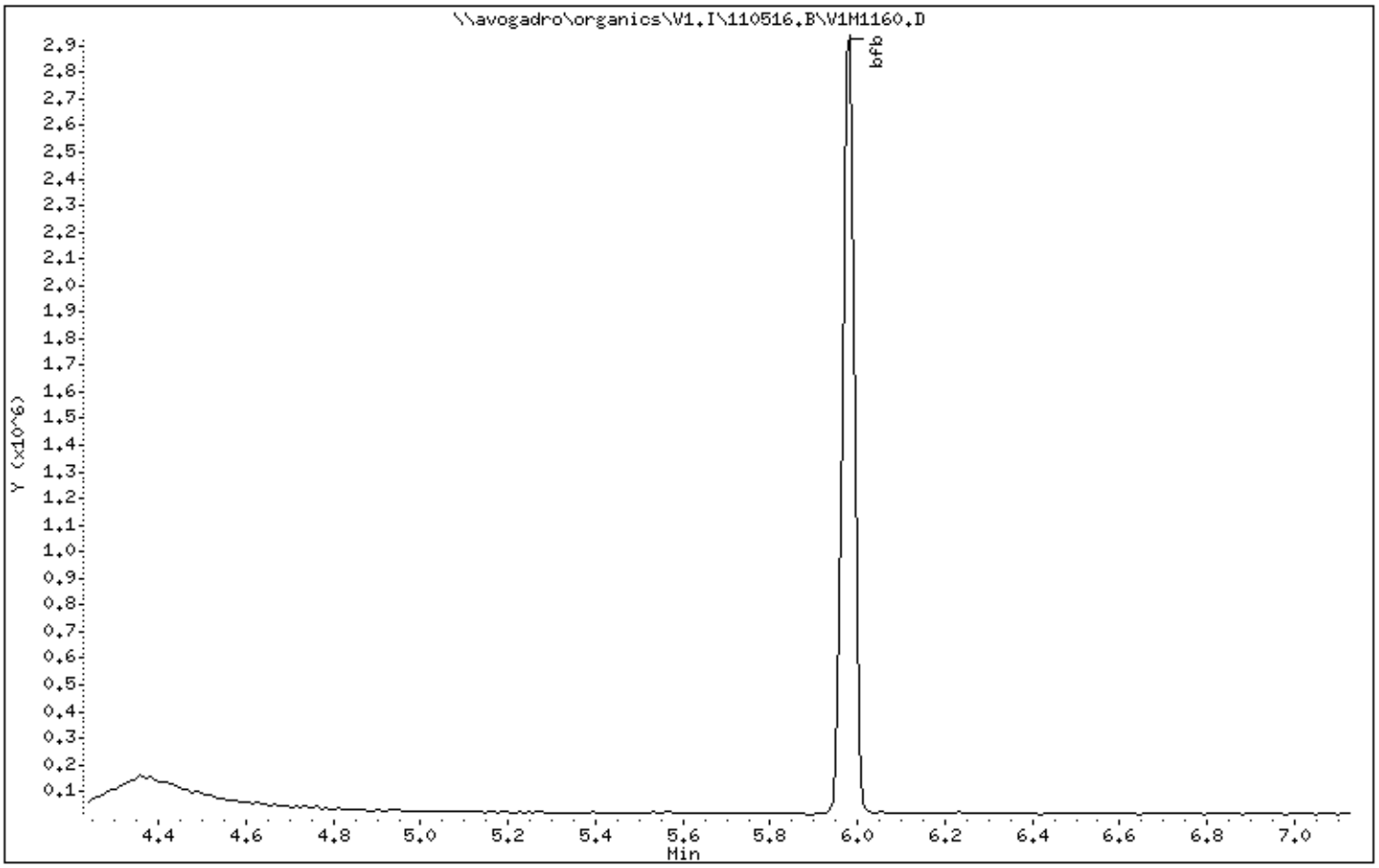
Instrument: V1.i

Sample Info: 5ML,BFB1T,BFB1T

Operator: SZ SRC: SZ

Column phase: DB-624

Column diameter: 0.25



Data File: \\avogadro\organics\V1.I\110516.B\V1M1160.D

Date : 16-MAY-2011 09:06

Client ID: BFB1T

Instrument: V1.i

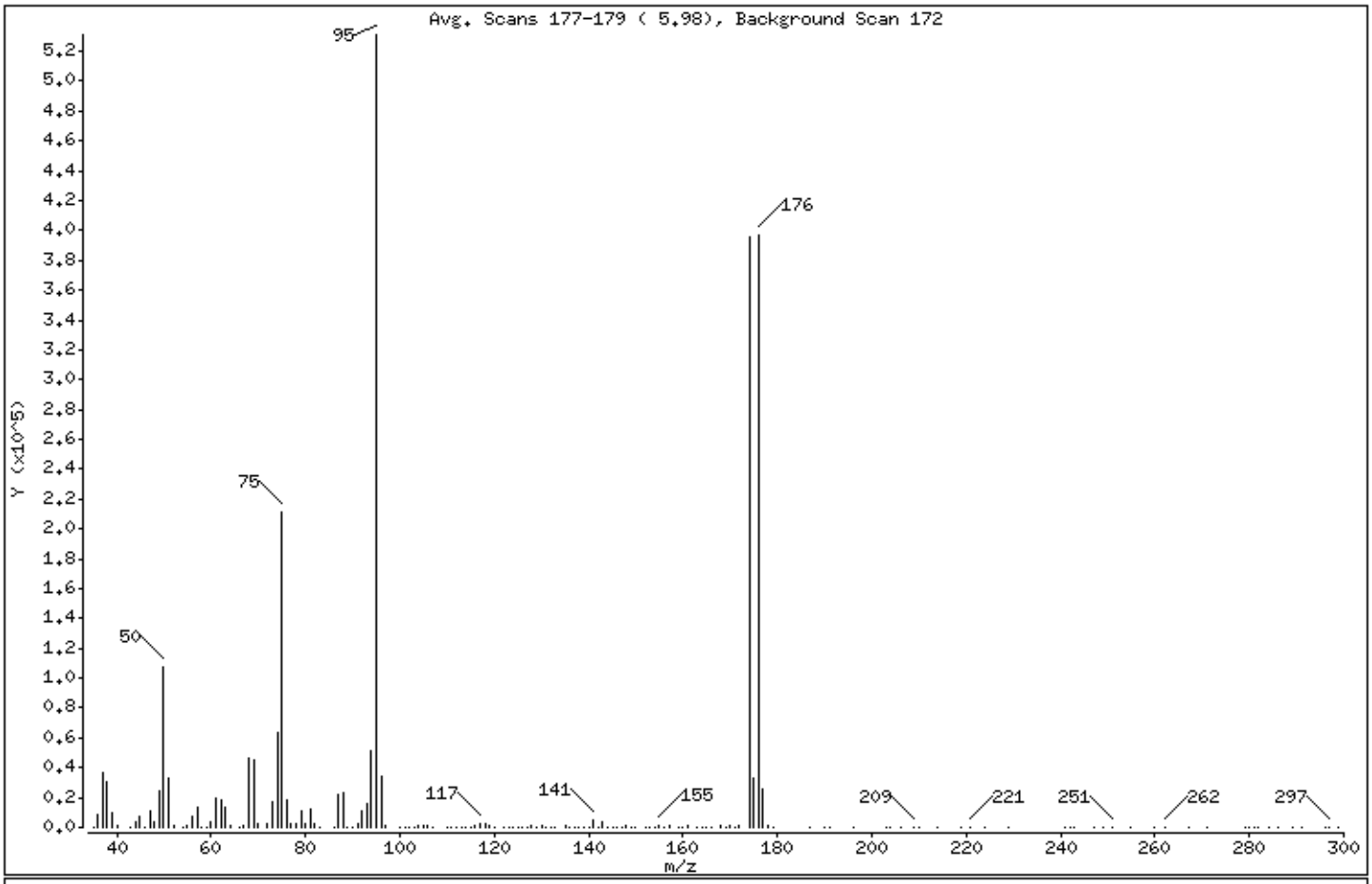
Sample Info: 5ML,BFB1T,BFB1T

Operator: SZ SRC: SZ

Column phase: DB-624

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.33
75	30.00 - 60.00% of mass 95	39.70
96	5.00 - 9.00% of mass 95	6.49
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	74.57
175	5.00 - 9.00% of mass 174	6.15 (8.24)
176	95.00 - 101.00% of mass 174	74.83 (100.34)
177	5.00 - 9.00% of mass 176	4.87 (6.51)

Date : 16-MAY-2011 09:06

Client ID: BFB1T Instrument: V1.i

Sample Info: 5ML,BFB1T,BFB1T

Operator: SZ SRC: SZ

Column phase: DB-624 Column diameter: 0.25

Data File: V1M1160.D
Spectrum: Avg. Scans 177-179 (5.98), Background Scan 172
Location of Maximum: 95.00
Number of points: 163

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	75	81.00	12568	129.00	596	176.00	397376
36.00	8403	82.00	2338	130.00	1134	177.00	25888
37.00	36192	83.00	211	131.00	263	178.00	786
38.00	30272	86.00	480	132.00	197	179.00	134
39.00	9943	87.00	22224	133.00	156	187.00	99
40.00	769	88.00	22752	135.00	740	190.00	53
43.00	343	89.00	150	136.00	146	191.00	108
44.00	3340	90.00	150	137.00	475	196.00	50
45.00	6957	91.00	2358	138.00	141	203.00	43
46.00	263	92.00	11540	139.00	191	204.00	37
47.00	10451	93.00	16213	140.00	150	206.00	70
48.00	4018	94.00	51336	141.00	4543	209.00	238
49.00	24208	95.00	531072	142.00	503	210.00	51
50.00	107944	96.00	34488	143.00	3475	214.00	44
51.00	32520	97.00	1231	144.00	449	219.00	48
52.00	1132	100.00	38	145.00	373	221.00	58
54.00	181	101.00	123	146.00	554	224.00	37
55.00	1518	102.00	53	147.00	481	229.00	34
56.00	7835	103.00	295	148.00	740	241.00	55
57.00	12980	104.00	1741	149.00	288	242.00	45
58.00	360	105.00	674	150.00	339	243.00	70
59.00	2	106.00	1563	152.00	222	247.00	48
60.00	4187	107.00	432	153.00	375	249.00	44
61.00	19592	110.00	180	154.00	221	251.00	124
62.00	18888	111.00	305	155.00	763	255.00	46
63.00	13313	112.00	48	156.00	433	260.00	39
64.00	1491	113.00	204	157.00	667	262.00	115
66.00	312	114.00	83	159.00	462	267.00	44
67.00	1310	115.00	481	160.00	91	271.00	45
68.00	46160	116.00	1445	161.00	729	279.00	35
69.00	44592	117.00	2462	163.00	65	280.00	45
70.00	2431	118.00	1911	164.00	97	281.00	130
72.00	1959	119.00	1557	165.00	104	282.00	88
73.00	17056	120.00	153	166.00	33	284.00	159
74.00	63000	122.00	56	168.00	655	286.00	50

Date : 16-MAY-2011 09:06

Client ID: BFB1T Instrument: V1.i

Sample Info: 5ML,BFB1T,BFB1T

Operator: SZ SRC: SZ

Column phase: DB-624 Column diameter: 0.25

Data File: V1M1160.D
Spectrum: Avg. Scans 177-179 (5.98), Background Scan 172
Location of Maximum: 95.00
Number of points: 163

m/z	Y	m/z	Y	m/z	Y	m/z	Y
75.00	210816	123.00	174	169.00	222	289.00	39
76.00	18168	124.00	353	170.00	1089	291.00	35
77.00	2816	125.00	85	171.00	602	296.00	40
78.00	2062	126.00	48	172.00	1603	297.00	212
79.00	11181	127.00	173	174.00	396032	299.00	53
80.00	3006	128.00	1624	175.00	32640		

Mitkem Laboratories

Data file : \\Avogadro\Organics\V1.I\110517.B\V1M1190.D
Lab Smp Id: BFB1U Client Smp ID: BFB1U
Inj Date : 17-MAY-2011 07:31
Operator : SZ SRC: SZ Inst ID: V1.i
Smp Info : 5ML,BFB1U,BFB1U
Misc Info :
Comment :
Method : \\Avogadro\Organics\V1.I\110517.B\bfb8260.m
Meth Date : 11-Apr-2011 09:55 am Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: TARGET115

Concentration Formula: Amt * DF * Uf * Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
5.960	6.000	(0.000)	95	633216			0.00- 100.00	100.00
5.960	6.000	(0.000)	50	145472			15.00- 40.00	22.97
5.960	6.000	(0.000)	75	260800			30.00- 60.00	41.19
5.960	6.000	(0.000)	96	43072			5.00- 9.00	6.80
5.960	6.000	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
5.960	6.000	(0.000)	174	425920			50.00- 0.00	67.26
5.960	6.000	(0.000)	175	35720			5.00- 9.00	8.39
5.960	6.000	(0.000)	176	407808			95.00- 101.00	95.75
5.960	6.000	(0.000)	177	25896			5.00- 9.00	6.35

Data File: \\Avogadro\Organics\V1.I\110517.B\V1M1190.D

Date : 17-MAY-2011 07:31

Client ID: BFB1U

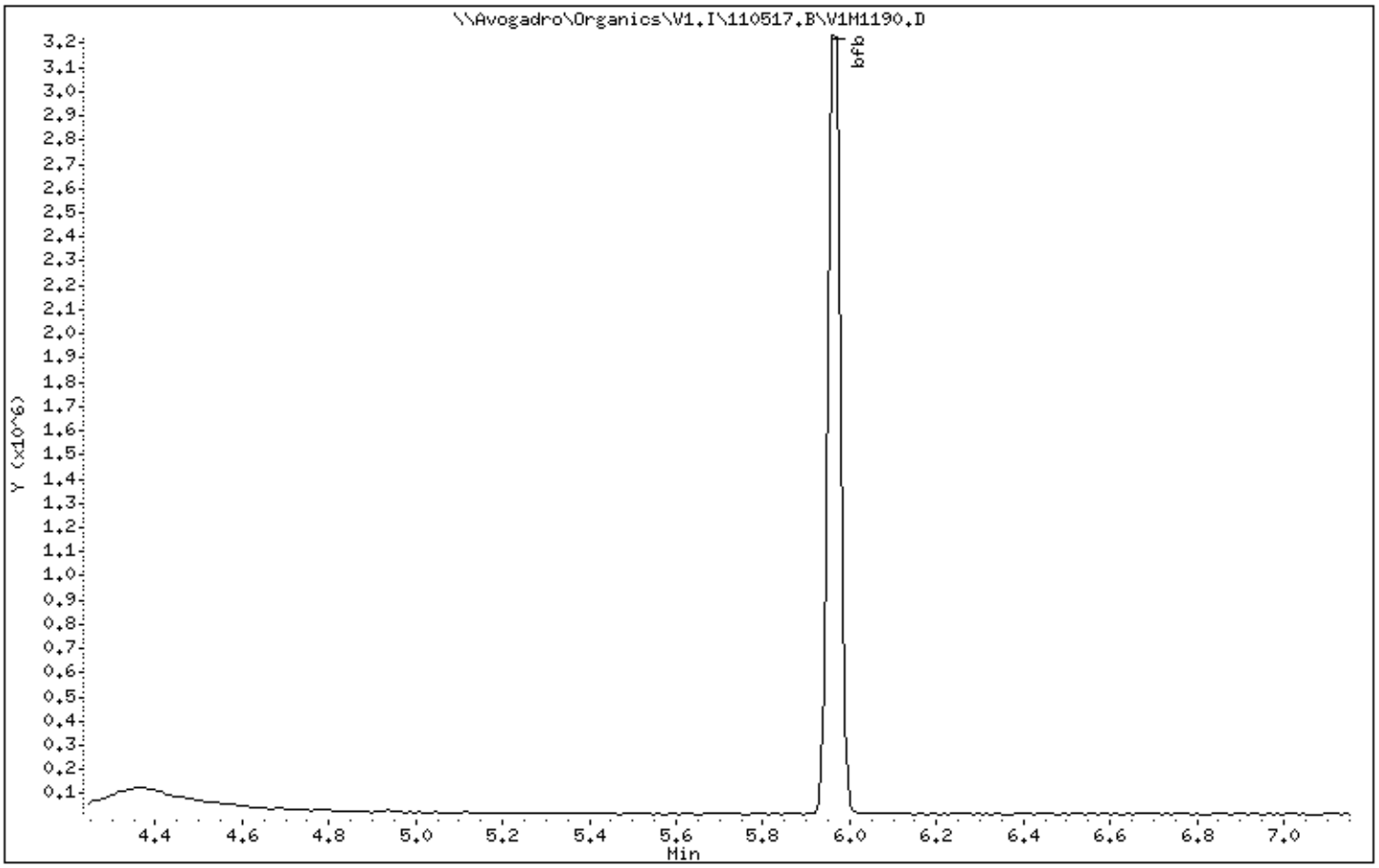
Instrument: V1.i

Sample Info: 5ML,BFB1U,BFB1U

Operator: SZ SRC: SZ

Column phase: DB-624

Column diameter: 0.25



Data File: \\Avogadro\Organics\V1.I\110517.B\V1M1190.D

Date : 17-MAY-2011 07:31

Client ID: BFB1U

Instrument: V1.i

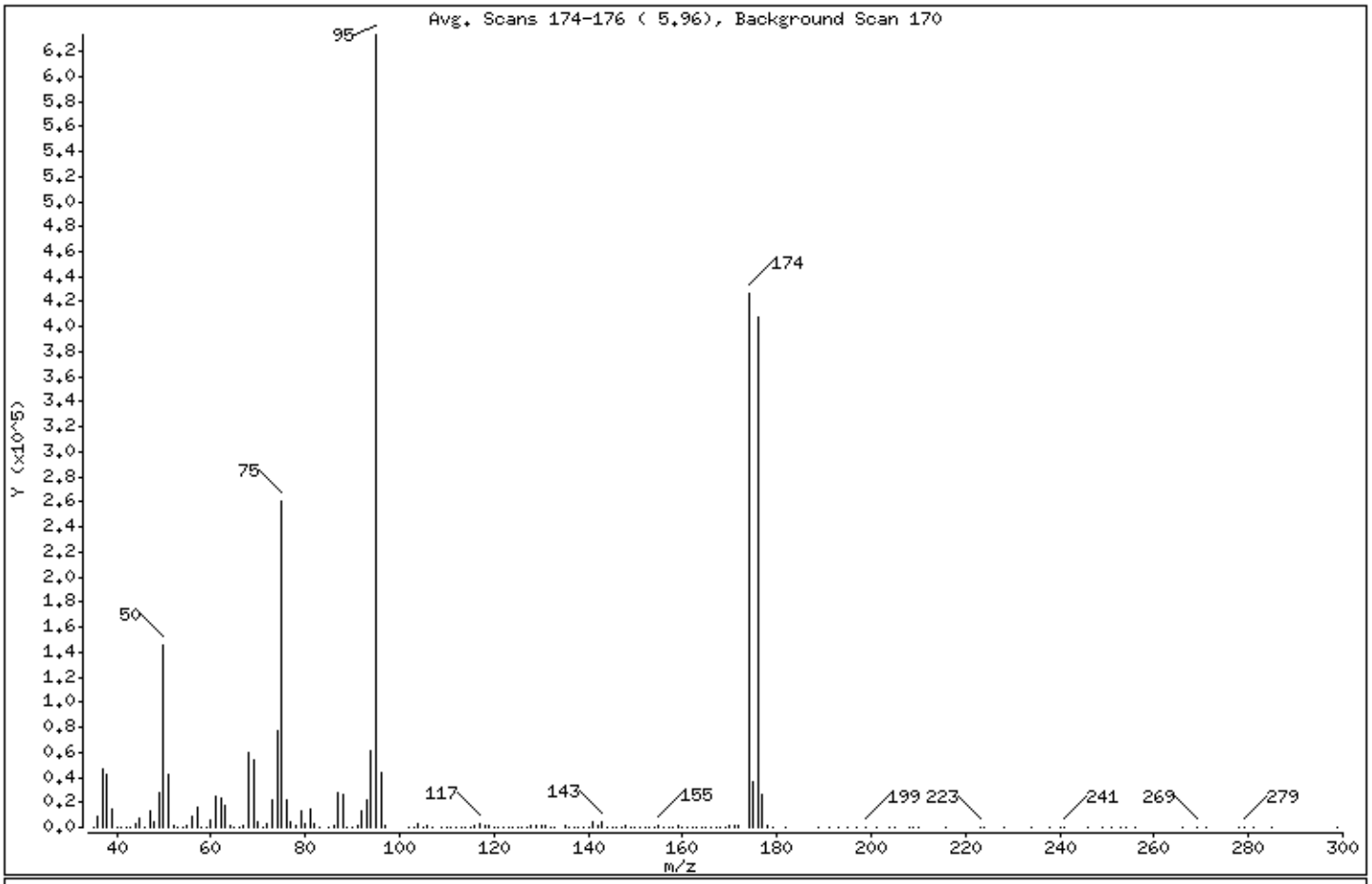
Sample Info: 5ML,BFB1U,BFB1U

Operator: SZ SRC: SZ

Column phase: DB-624

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	22.97
75	30.00 - 60.00% of mass 95	41.19
96	5.00 - 9.00% of mass 95	6.80
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	67.26
175	5.00 - 9.00% of mass 174	5.64 (8.39)
176	95.00 - 101.00% of mass 174	64.40 (95.75)
177	5.00 - 9.00% of mass 176	4.09 (6.35)

Date : 17-MAY-2011 07:31

Client ID: BFB1U Instrument: V1.i

Sample Info: 5ML,BFB1U,BFB1U

Operator: SZ SRC: SZ

Column phase: DB-624 Column diameter: 0.25

Data File: V1M1190.D
Spectrum: Avg. Scans 174-176 (5.96), Background Scan 170
Location of Maximum: 95.00
Number of points: 172

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	113	79.00	13522	129.00	1020	175.00	35720
36.00	9161	80.00	3458	130.00	2136	176.00	407808
37.00	46824	81.00	14332	131.00	942	177.00	25896
38.00	41608	82.00	2894	132.00	173	178.00	815
39.00	14136	83.00	14	133.00	72	179.00	47
40.00	91	85.00	244	135.00	1052	182.00	64
41.00	538	86.00	995	136.00	96	189.00	44
42.00	146	87.00	27264	137.00	628	191.00	36
43.00	497	88.00	26312	138.00	110	193.00	131
44.00	2498	89.00	65	139.00	306	195.00	37
45.00	7762	90.00	74	140.00	430	197.00	101
46.00	168	91.00	2075	141.00	3725	199.00	142
47.00	13668	92.00	13827	142.00	770	201.00	33
48.00	4667	93.00	22280	143.00	4561	204.00	70
49.00	27592	94.00	60480	144.00	438	205.00	110
50.00	145472	95.00	633216	145.00	590	208.00	104
51.00	41504	96.00	43072	146.00	627	209.00	37
52.00	1947	97.00	1483	147.00	260	210.00	34
53.00	21	102.00	204	148.00	1090	216.00	40
54.00	194	103.00	261	149.00	400	223.00	56
55.00	1214	104.00	2428	150.00	496	224.00	38
56.00	8257	105.00	550	151.00	105	228.00	38
57.00	16017	106.00	1870	152.00	160	234.00	53
58.00	584	107.00	310	153.00	380	238.00	79
59.00	57	109.00	220	154.00	334	240.00	38
60.00	6166	110.00	284	155.00	1350	241.00	114
61.00	25080	111.00	521	156.00	671	246.00	55
62.00	23512	112.00	593	157.00	394	249.00	47
63.00	18056	113.00	279	158.00	274	251.00	76
64.00	1452	114.00	165	159.00	752	253.00	84
65.00	266	115.00	270	160.00	93	254.00	34
66.00	80	116.00	1512	161.00	540	256.00	34
67.00	1060	117.00	2576	162.00	38	266.00	37
68.00	58992	118.00	1354	163.00	35	269.00	48
69.00	53888	119.00	2156	164.00	74	271.00	46

Date : 17-MAY-2011 07:31

Client ID: BFB1U Instrument: V1.i

Sample Info: 5ML,BFB1U,BFB1U

Operator: SZ SRC: SZ

Column phase: DB-624 Column diameter: 0.25

Data File: V1M1190.D
Spectrum: Avg. Scans 174-176 (5.96), Background Scan 170
Location of Maximum: 95.00
Number of points: 172

m/z	Y	m/z	Y	m/z	Y	m/z	Y
70.00	4018	120.00	70	165.00	111	278.00	44
71.00	355	121.00	124	166.00	170	279.00	94
72.00	2578	122.00	228	167.00	172	281.00	68
73.00	21680	123.00	116	168.00	172	285.00	47
74.00	77360	124.00	356	169.00	624	299.00	37
75.00	260800	125.00	224	170.00	950		
76.00	21680	126.00	336	171.00	1850		
77.00	3823	127.00	127	172.00	1476		
78.00	2168	128.00	1819	174.00	425920		

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-59186

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-59186

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1165.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 05/16/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-59186

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-59186

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1165.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 05/16/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U

Data File: \\avogadro\organics\V1.I\110516.B\V1M1165.D
Report Date: 17-May-2011 11:35

Mitkem Laboratories

Method 8260 Water and Medium Soil

Data file : \\avogadro\organics\V1.I\110516.B\V1M1165.D
Lab Smp Id: MB-59186 Client Smp ID: MB-59186
Inj Date : 16-MAY-2011 11:23
Operator : SZ SRC: LIMS Inst ID: V1.i
Smp Info : 5ML,MB-59186,MB-59186,59186
Misc Info :
Comment :
Method : \\Avogadro\Organics\V1.I\110516.B\v18260Gadd.m
Meth Date : 17-May-2011 11:20 vbrizard Quant Type: ISTD
Cal Date : 05-MAY-2011 12:19 Cal File: V1M1016.D
Als bottle: 32 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

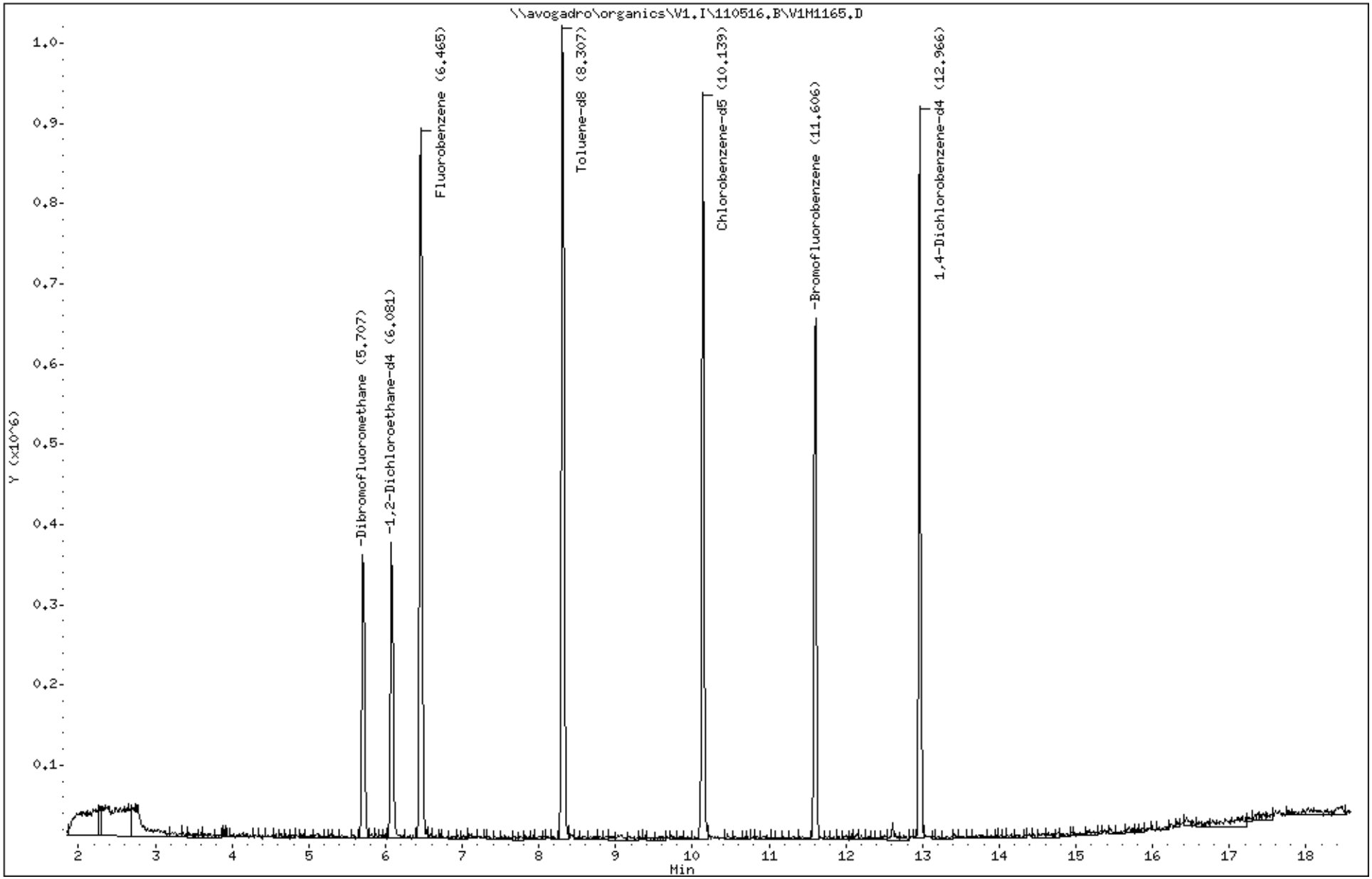
Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
$	36 Dibromofluoromethane	113	5.706	5.701	(0.883)	263695	51.7868	52
$	42 1,2-Dichloroethane-d4	102	6.080	6.076	(0.941)	55367	52.6730	53
*	46 Fluorobenzene	96	6.464	6.450	(1.000)	862626	50.0000	
$	58 Toluene-d8	98	8.306	8.302	(0.819)	765761	49.6717	50
*	68 Chlorobenzene-d5	117	10.138	10.134	(1.000)	639424	50.0000	
$	79 Bromofluorobenzene	95	11.596	11.591	(1.144)	296432	46.6014	47
*	92 1,4-Dichlorobenzene-d4	152	12.965	12.961	(1.000)	273622	50.0000	

Data File: \\avogadro\organics\V1.I\110516.B\V1M1165.D
Date : 16-MAY-2011 11:23
Client ID: MB-59186
Sample Info: 5ML,MB-59186,MB-59186,59186
Purge Volume: 5.0
Column phase: DB-624

Instrument: V1.i
Operator: SZ SRC: LIMS
Column diameter: 0.25



1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-59208

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-59208

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1195.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 05/17/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-59208

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-59208

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1195.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 05/17/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U

Data File: \\Avogadro\Organics\V1.I\110517.B\V1M1195.D
Report Date: 18-May-2011 13:43

Mitkem Laboratories

Method 8260 Water and Medium Soil

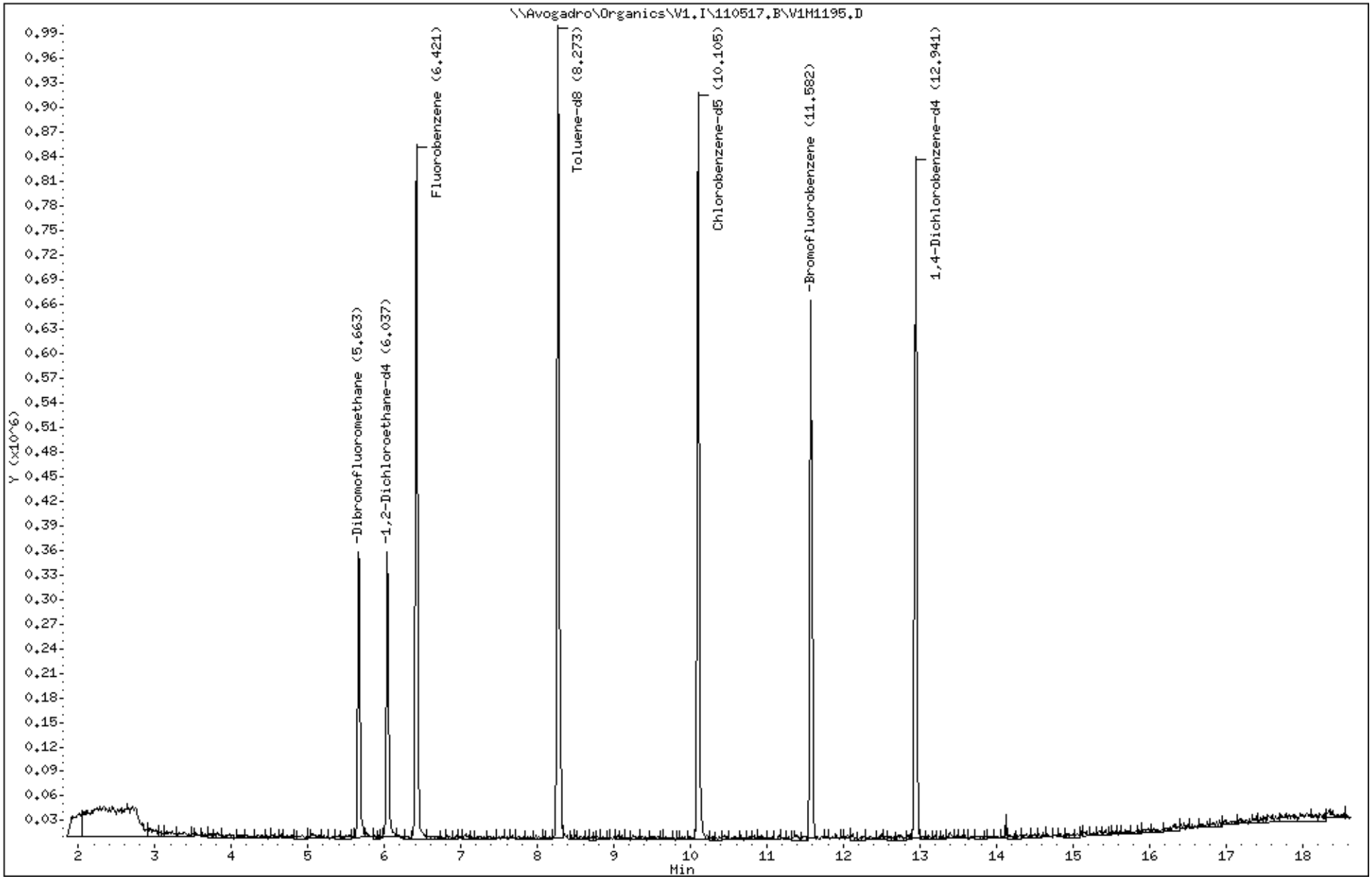
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Lab Smp Id: MB-59208 Client Smp ID: MB-59208
Inj Date : 17-MAY-2011 10:14
Operator : SZ SRC: LIMS Inst ID: V1.i
Smp Info : 5ML,MB-59208,MB-59208,59208
Misc Info :
Comment :
Method : \\Avogadro\Organics\V1.I\110517.B\v18260Gadd.m
Meth Date : 18-May-2011 13:41 amarquis Quant Type: ISTD
Cal Date : 05-MAY-2011 12:19 Cal File: V1M1016.D
Als bottle: 32 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
$ 36 Dibromofluoromethane	113	5.662	5.656	(0.882)	256655	51.1662	51
$ 42 1,2-Dichloroethane-d4	102	6.036	6.040	(0.940)	51010	49.2617	49
* 46 Fluorobenzene	96	6.421	6.415	(1.000)	849779	50.0000	
$ 58 Toluene-d8	98	8.272	8.276	(0.819)	725458	49.5598	50
* 68 Chlorobenzene-d5	117	10.104	10.108	(1.000)	607139	50.0000	
$ 79 Bromofluorobenzene	95	11.582	11.586	(1.146)	290660	48.1238	48
* 92 1,4-Dichlorobenzene-d4	152	12.951	12.945	(1.000)	262635	50.0000	

Data File: \\Avogadro\Organics\V1.I\110517.B\V1M1195.D
Date : 17-MAY-2011 10:14
Client ID: MB-59208
Instrument: V1.i
Sample Info: 5ML,MB-59208,MB-59208,59208
Purge Volume: 5.0
Operator: SZ SRC: LIMS
Column phase: DB-624
Column diameter: 0.25



1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-MW-4MS

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0834-12AMS

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1203.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/13/2011

% Moisture: not dec. Date Analyzed: 05/17/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
75-71-8	Dichlorodifluoromethane	50	
74-87-3	Chloromethane	52	
75-01-4	Vinyl chloride	52	
74-83-9	Bromomethane	56	
75-00-3	Chloroethane	59	
75-69-4	Trichlorofluoromethane	54	
75-35-4	1,1-Dichloroethene	55	
67-64-1	Acetone	39	
74-88-4	Iodomethane	55	
75-15-0	Carbon disulfide	57	
75-09-2	Methylene chloride	57	
156-60-5	trans-1,2-Dichloroethene	56	
1634-04-4	Methyl tert-butyl ether	58	
75-34-3	1,1-Dichloroethane	55	
108-05-4	Vinyl acetate	56	
78-93-3	2-Butanone	52	
156-59-2	cis-1,2-Dichloroethene	57	
594-20-7	2,2-Dichloropropane	57	
74-97-5	Bromochloromethane	57	
67-66-3	Chloroform	58	
71-55-6	1,1,1-Trichloroethane	57	
563-58-6	1,1-Dichloropropene	58	
56-23-5	Carbon tetrachloride	55	
107-06-2	1,2-Dichloroethane	56	
71-43-2	Benzene	55	
79-01-6	Trichloroethene	55	
78-87-5	1,2-Dichloropropane	56	
74-95-3	Dibromomethane	56	
75-27-4	Bromodichloromethane	57	
10061-01-5	cis-1,3-Dichloropropene	58	
108-10-1	4-Methyl-2-pentanone	57	
108-88-3	Toluene	55	
10061-02-6	trans-1,3-Dichloropropene	56	
79-00-5	1,1,2-Trichloroethane	56	
142-28-9	1,3-Dichloropropane	53	

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-MW-4MS

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0834-12AMS

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1203.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/13/2011

% Moisture: not dec. Date Analyzed: 05/17/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
127-18-4	Tetrachloroethene	52	
591-78-6	2-Hexanone	48	
124-48-1	Dibromochloromethane	54	
106-93-4	1,2-Dibromoethane	55	
108-90-7	Chlorobenzene	51	
630-20-6	1,1,1,2-Tetrachloroethane	55	
100-41-4	Ethylbenzene	51	
1330-20-7	m,p-Xylene	110	
95-47-6	o-Xylene	51	
1330-20-7	Xylene (Total)	160	
100-42-5	Styrene	53	
75-25-2	Bromoform	56	
98-82-8	Isopropylbenzene	54	
79-34-5	1,1,2,2-Tetrachloroethane	58	
108-86-1	Bromobenzene	56	
96-18-4	1,2,3-Trichloropropane	54	
103-65-1	n-Propylbenzene	55	
95-49-8	2-Chlorotoluene	58	
108-67-8	1,3,5-Trimethylbenzene	55	
106-43-4	4-Chlorotoluene	54	
98-06-6	tert-Butylbenzene	54	
95-63-6	1,2,4-Trimethylbenzene	55	
135-98-8	sec-Butylbenzene	52	
99-87-6	4-Isopropyltoluene	53	
541-73-1	1,3-Dichlorobenzene	55	
106-46-7	1,4-Dichlorobenzene	52	
104-51-8	n-Butylbenzene	51	
95-50-1	1,2-Dichlorobenzene	56	
96-12-8	1,2-Dibromo-3-chloropropane	52	
120-82-1	1,2,4-Trichlorobenzene	46	
87-68-3	Hexachlorobutadiene	46	
87-61-6	1,2,3-Trichlorobenzene	50	
91-20-3	Naphthalene	52	

Data File: \\Avogadro\Organics\V1.I\110517.B\V1M1203.D
Report Date: 18-May-2011 13:43

Mitkem Laboratories

Method 8260 Water and Medium Soil

Data file : \\Avogadro\Organics\V1.I\110517.B\V1M1203.D
Lab Smp Id: K0834-12AMS Client Smp ID: SL-MW-4MS
Inj Date : 17-MAY-2011 14:02
Operator : SZ SRC: LIMS Inst ID: V1.i
Smp Info : 5ML,K0834-12AMS,,59208,
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\V1.I\110517.B\v18260Gadd.m
Meth Date : 18-May-2011 13:41 amarquis Quant Type: ISTD
Cal Date : 05-MAY-2011 12:19 Cal File: V1M1016.D
Als bottle: 40 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

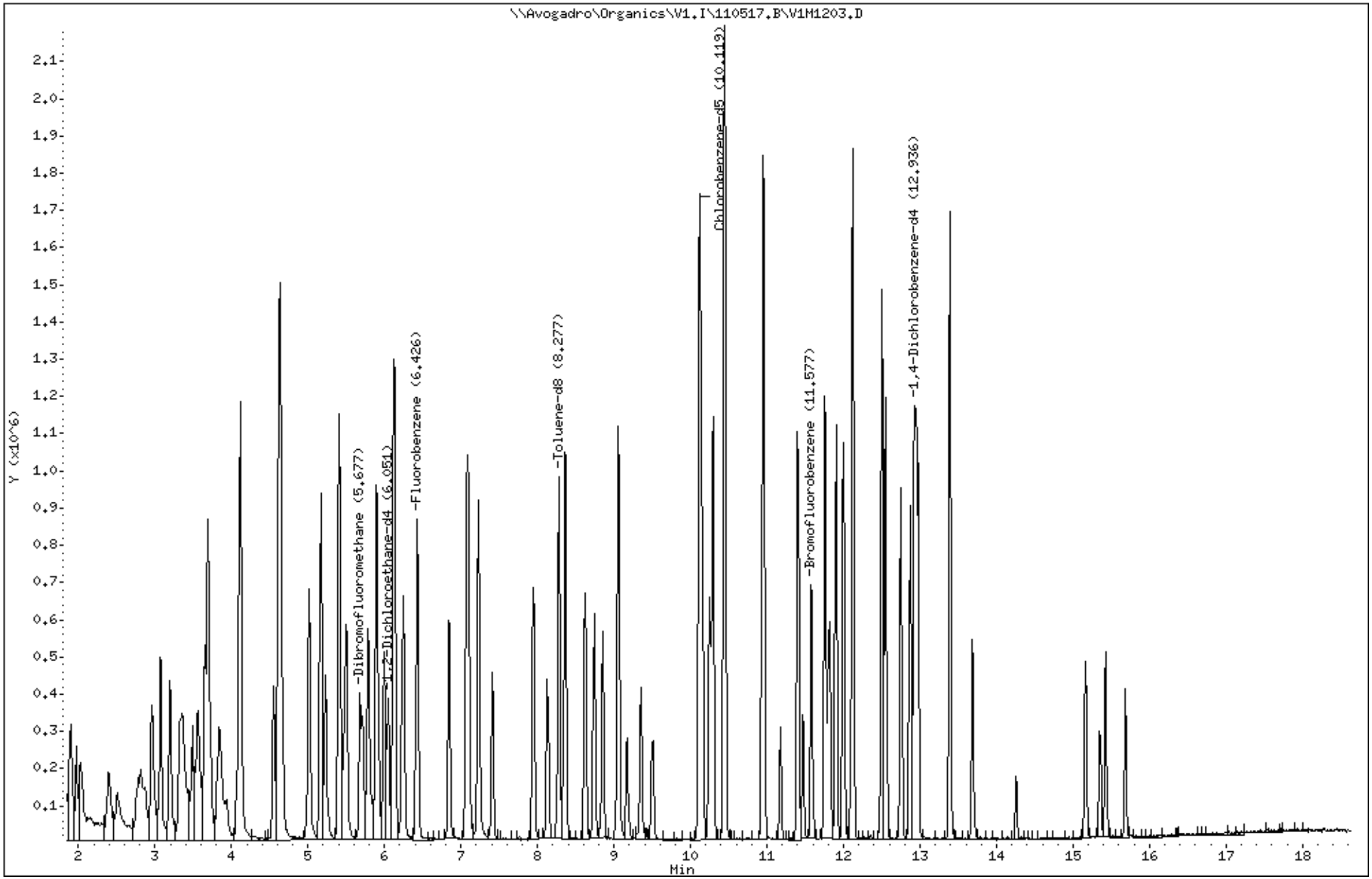
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1	Dichlorodifluoromethane	85	1.697	1.697	(0.264)	200914	50.0000	50
3	Chloromethane	50	1.894	1.894	(0.295)	384729	50.0000	52
4	Vinyl Chloride	62	2.022	2.012	(0.315)	275447	50.0000	52
5	Bromomethane	94	2.387	2.386	(0.372)	186602	50.0000	56
6	Chloroethane	64	2.505	2.504	(0.390)	163252	50.0000	59
7	Trichlorofluoromethane	101	2.781	2.770	(0.433)	287993	50.0000	54
10	1,1-Dichloroethene	96	3.332	3.322	(0.519)	230414	50.0000	54
12	Acetone	58	3.362	3.342	(0.523)	34879	50.0000	39
13	Iodomethane	142	3.490	3.480	(0.543)	394948	50.0000	55
14	Carbon Disulfide	76	3.559	3.549	(0.554)	796801	50.0000	57
18	Methylene Chloride	84	3.835	3.824	(0.597)	244586	50.0000	57
21	trans-1,2-Dichloroethene	96	4.111	4.100	(0.640)	242421	50.0000	56
22	Methyl tert-butyl ether	73	4.111	4.100	(0.640)	582946	50.0000	58
23	1,1-Dichloroethane	63	4.554	4.533	(0.709)	492656	50.0000	54
24	Vinyl acetate	43	4.603	4.583	(0.716)	1540594	50.0000	56
28	cis-1,2-Dichloroethene	96	5.165	5.144	(0.804)	261912	50.0000	57
29	2,2-Dichloropropane	77	5.174	5.154	(0.805)	162750	50.0000	57
30	2-Butanone	72	5.174	5.164	(0.805)	32717	50.0000	52
34	Bromochloromethane	128	5.421	5.400	(0.844)	148562	50.0000	57
35	Chloroform	83	5.509	5.489	(0.857)	411283	50.0000	58
$ 36	Dibromofluoromethane	113	5.677	5.656	(0.884)	258199	50.0000	53
37	1,1,1-Trichloroethane	97	5.716	5.696	(0.890)	254366	50.0000	56
39	1,1-Dichloropropene	110	5.893	5.883	(0.917)	110780	50.0000	58

Data File: \\Avogadro\Organics\V1.I\110517.B\V1M1203.D
Report Date: 18-May-2011 13:43

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
	40	Carbon Tetrachloride	117	5.903	5.883	(0.919)	257098	50.0000	55
$	42	1,2-Dichloroethane-d4	102	6.051	6.040	(0.942)	53481	50.0000	53
	43	Benzene	78	6.120	6.109	(0.952)	850917	50.0000	55
	44	1,2-Dichloroethane	62	6.130	6.119	(0.954)	343978	50.0000	56
*	46	Fluorobenzene	96	6.425	6.415	(1.000)	825446	50.0000	
	47	Trichloroethene	130	6.849	6.828	(1.066)	248841	50.0000	55
	49	1,2-Dichloropropane	63	7.095	7.085	(1.104)	292852	50.0000	56
	52	Dibromomethane	93	7.233	7.222	(1.126)	167318	50.0000	56
	54	Bromodichloromethane	83	7.410	7.400	(1.153)	308670	50.0000	56
	56	cis-1,3-Dichloropropene	75	7.942	7.941	(1.236)	410398	50.0000	58
	57	4-Methyl-2-pentanone	43	8.129	8.129	(1.265)	435522	50.0000	57
$	58	Toluene-d8	98	8.277	8.276	(0.819)	710333	50.0000	48
	59	Toluene	91	8.356	8.355	(1.300)	860508	50.0000	55
	60	trans-1,3-Dichloropropene	75	8.622	8.621	(1.342)	361620	50.0000	56
	62	1,1,2-Trichloroethane	97	8.848	8.848	(1.377)	206542	50.0000	56
	63	Tetrachloroethene	164	9.055	9.045	(0.896)	170938	50.0000	52
	64	1,3-Dichloropropane	76	9.065	9.064	(0.897)	361993	50.0000	53
	65	2-Hexanone	43	9.173	9.173	(0.907)	286731	50.0000	48
	66	Dibromochloromethane	129	9.351	9.350	(0.925)	280122	50.0000	54
	67	1,2-Dibromoethane	107	9.508	9.508	(0.941)	250791	50.0000	55
*	68	Chlorobenzene-d5	117	10.109	10.108	(1.000)	619058	50.0000	
	70	Chlorobenzene	112	10.148	10.148	(1.004)	587071	50.0000	50
	71	1,1,1,2-Tetrachloroethane	131	10.247	10.246	(1.014)	251030	50.0000	55
	72	Ethylbenzene	106	10.296	10.295	(1.019)	294515	50.0000	51
	73	m,p-Xylene	106	10.444	10.443	(1.033)	757741	100.000	110
	74	o-Xylene	106	10.946	10.946	(1.083)	353098	50.0000	51
	75	Styrene	104	10.956	10.955	(1.084)	611583	50.0000	53
	76	Bromoform	173	11.173	11.172	(1.105)	164341	50.0000	56
	77	Isopropylbenzene	105	11.399	11.399	(1.128)	877688	50.0000	54
$	79	Bromofluorobenzene	95	11.577	11.586	(1.145)	308174	50.0000	50
	80	1,1,2,2-Tetrachloroethane	83	11.754	11.753	(0.908)	294361	50.0000	58
	81	Bromobenzene	156	11.764	11.763	(0.909)	249863	50.0000	56
	82	1,2,3-Trichloropropane	75	11.813	11.802	(0.913)	320414	50.0000	54
	83	n-Propylbenzene	120	11.902	11.901	(0.919)	224303	50.0000	55
	84	2-Chlorotoluene	126	12.000	11.999	(0.927)	241883	50.0000	58
	85	1,3,5-Trimethylbenzene	105	12.108	12.118	(0.935)	685547	50.0000	55
	86	4-Chlorotoluene	126	12.128	12.128	(0.937)	239990	50.0000	54
	87	tert-Butylbenzene	119	12.502	12.502	(0.966)	694600	50.0000	54
M	94	Xylene (Total)	106				1110839	150.000	160
	88	1,2,4-Trimethylbenzene	105	12.552	12.551	(0.970)	714838	50.0000	55
	89	sec-Butylbenzene	105	12.749	12.758	(0.985)	766842	50.0000	52
	90	1,3-Dichlorobenzene	146	12.877	12.876	(0.995)	420290	50.0000	55
	91	4-Isopropyltoluene	119	12.916	12.925	(0.998)	634006	50.0000	53
*	92	1,4-Dichlorobenzene-d4	152	12.946	12.945	(1.000)	289640	50.0000	
	93	1,4-Dichlorobenzene	146	12.975	12.975	(1.002)	406617	50.0000	52
	95	n-Butylbenzene	91	13.389	13.388	(1.034)	506604	50.0000	51
	96	1,2-Dichlorobenzene	146	13.399	13.398	(1.035)	412246	50.0000	56
	98	1,2-Dibromo-3-chloropropane	75	14.256	14.265	(1.101)	36287	50.0000	52
	99	1,2,4-Trichlorobenzene	180	15.162	15.171	(1.171)	142047	50.0000	46
	100	Hexachlorobutadiene	225	15.359	15.358	(1.186)	55142	50.0000	46
	101	Naphthalene	128	15.428	15.437	(1.192)	435919	50.0000	52
	102	1,2,3-Trichlorobenzene	180	15.684	15.693	(1.212)	122756	50.0000	50

Data File: \\Avogadro\Organics\V1.I\110517.B\V1M1203.D
Date : 17-MAY-2011 14:02
Client ID: SL-MW-4MS
Instrument: V1.i
Sample Info: 5ML,K0834-12AMS,,59208,
Purge Volume: 5.0
Operator: SZ SRC: LIMS
Column phase: DB-624
Column diameter: 0.25



1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-MW-4MSD

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0834-12AMSD

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1204.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/13/2011

% Moisture: not dec. Date Analyzed: 05/17/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
75-71-8	Dichlorodifluoromethane	50	
74-87-3	Chloromethane	58	
75-01-4	Vinyl chloride	57	
74-83-9	Bromomethane	58	
75-00-3	Chloroethane	62	
75-69-4	Trichlorofluoromethane	58	
75-35-4	1,1-Dichloroethene	56	
67-64-1	Acetone	36	
74-88-4	Iodomethane	59	
75-15-0	Carbon disulfide	57	
75-09-2	Methylene chloride	58	
156-60-5	trans-1,2-Dichloroethene	58	
1634-04-4	Methyl tert-butyl ether	60	
75-34-3	1,1-Dichloroethane	58	
108-05-4	Vinyl acetate	59	
78-93-3	2-Butanone	57	
156-59-2	cis-1,2-Dichloroethene	60	
594-20-7	2,2-Dichloropropane	61	
74-97-5	Bromochloromethane	60	
67-66-3	Chloroform	61	
71-55-6	1,1,1-Trichloroethane	59	
563-58-6	1,1-Dichloropropene	57	
56-23-5	Carbon tetrachloride	57	
107-06-2	1,2-Dichloroethane	58	
71-43-2	Benzene	58	
79-01-6	Trichloroethene	57	
78-87-5	1,2-Dichloropropane	58	
74-95-3	Dibromomethane	58	
75-27-4	Bromodichloromethane	60	
10061-01-5	cis-1,3-Dichloropropene	59	
108-10-1	4-Methyl-2-pentanone	61	
108-88-3	Toluene	59	
10061-02-6	trans-1,3-Dichloropropene	58	
79-00-5	1,1,2-Trichloroethane	60	
142-28-9	1,3-Dichloropropane	56	

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-MW-4MSD

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: K0834-12AMSD

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1204.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/13/2011

% Moisture: not dec. Date Analyzed: 05/17/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
127-18-4	Tetrachloroethene	53	
591-78-6	2-Hexanone	52	
124-48-1	Dibromochloromethane	56	
106-93-4	1,2-Dibromoethane	58	
108-90-7	Chlorobenzene	54	
630-20-6	1,1,1,2-Tetrachloroethane	57	
100-41-4	Ethylbenzene	54	
1330-20-7	m,p-Xylene	110	
95-47-6	o-Xylene	53	
1330-20-7	Xylene (Total)	160	
100-42-5	Styrene	55	
75-25-2	Bromoform	59	
98-82-8	Isopropylbenzene	54	
79-34-5	1,1,2,2-Tetrachloroethane	59	
108-86-1	Bromobenzene	57	
96-18-4	1,2,3-Trichloropropane	57	
103-65-1	n-Propylbenzene	56	
95-49-8	2-Chlorotoluene	56	
108-67-8	1,3,5-Trimethylbenzene	55	
106-43-4	4-Chlorotoluene	56	
98-06-6	tert-Butylbenzene	55	
95-63-6	1,2,4-Trimethylbenzene	55	
135-98-8	sec-Butylbenzene	53	
99-87-6	4-Isopropyltoluene	52	
541-73-1	1,3-Dichlorobenzene	56	
106-46-7	1,4-Dichlorobenzene	57	
104-51-8	n-Butylbenzene	50	
95-50-1	1,2-Dichlorobenzene	57	
96-12-8	1,2-Dibromo-3-chloropropane	59	
120-82-1	1,2,4-Trichlorobenzene	48	
87-68-3	Hexachlorobutadiene	46	
87-61-6	1,2,3-Trichlorobenzene	52	
91-20-3	Naphthalene	56	

Data File: \\Avogadro\Organics\V1.I\110517.B\V1M1204.D
Report Date: 18-May-2011 13:43

Mitkem Laboratories

Method 8260 Water and Medium Soil

Data file : \\Avogadro\Organics\V1.I\110517.B\V1M1204.D
Lab Smp Id: K0834-12AMSD Client Smp ID: SL-MW-4MSD
Inj Date : 17-MAY-2011 14:29
Operator : SZ SRC: LIMS Inst ID: V1.i
Smp Info : 5ML,K0834-12AMSD,,59208,
Misc Info :
Comment   :
Method   : \\Avogadro\Organics\V1.I\110517.B\v18260Gadd.m
Meth Date : 18-May-2011 13:41 amarquis Quant Type: ISTD
Cal Date : 05-MAY-2011 12:19 Cal File: V1M1016.D
Als bottle: 41 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

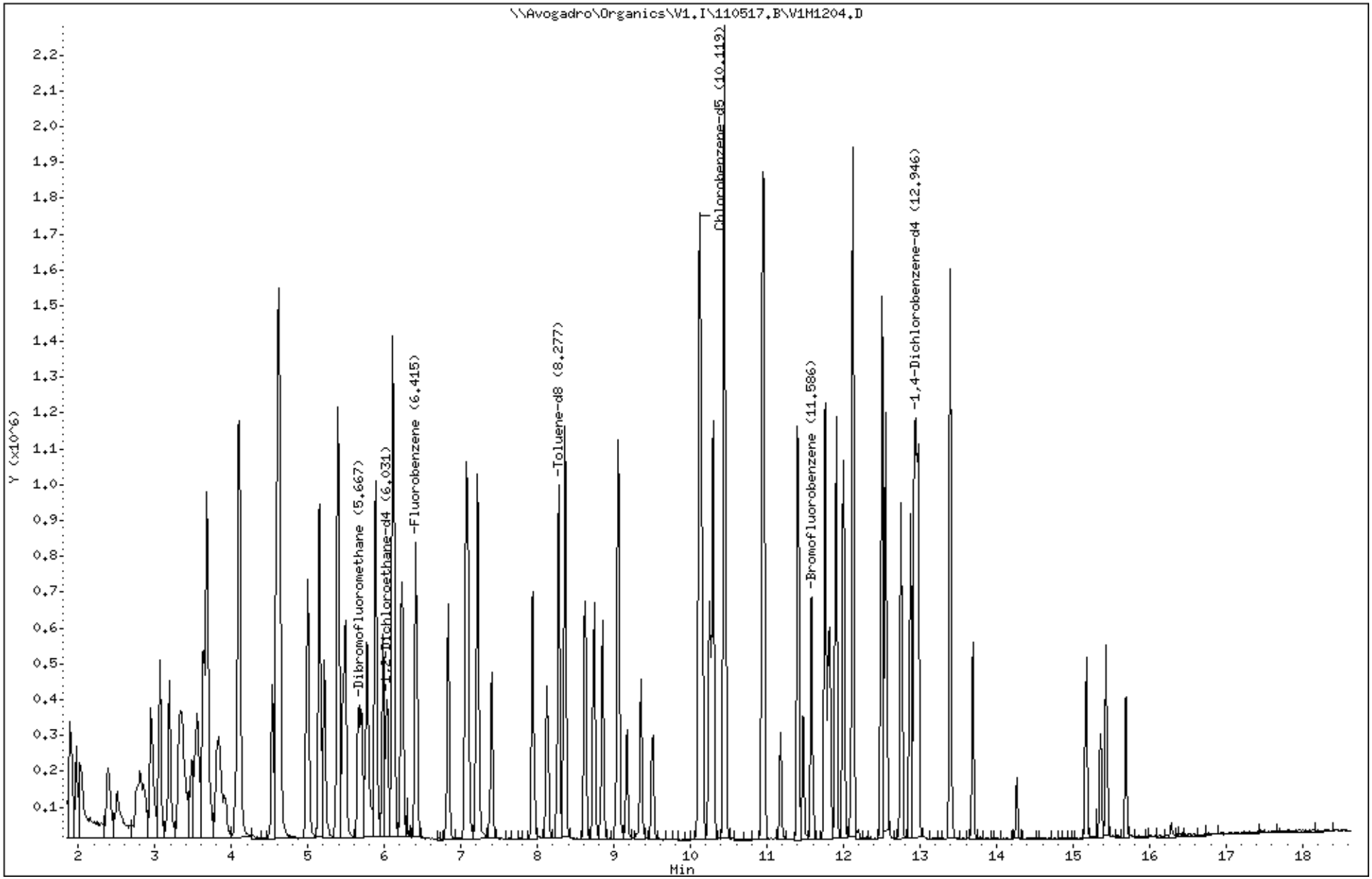
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1	Dichlorodifluoromethane	85	1.697	1.697	(0.265)	204710	50.0000	50
3	Chloromethane	50	1.894	1.894	(0.295)	433661	50.0000	58
4	Vinyl Chloride	62	2.012	2.012	(0.314)	307186	50.0000	57
5	Bromomethane	94	2.386	2.386	(0.372)	195994	50.0000	58
6	Chloroethane	64	2.504	2.504	(0.390)	172689	50.0000	62
7	Trichlorofluoromethane	101	2.770	2.770	(0.432)	309846	50.0000	58
10	1,1-Dichloroethene	96	3.322	3.322	(0.518)	241856	50.0000	56
12	Acetone	58	3.342	3.342	(0.521)	33008	50.0000	36
13	Iodomethane	142	3.480	3.480	(0.542)	430571	50.0000	59
14	Carbon Disulfide	76	3.549	3.549	(0.553)	797942	50.0000	56
18	Methylene Chloride	84	3.824	3.824	(0.596)	251870	50.0000	58
21	trans-1,2-Dichloroethene	96	4.100	4.100	(0.639)	254245	50.0000	58
22	Methyl tert-butyl ether	73	4.100	4.100	(0.639)	612662	50.0000	60
23	1,1-Dichloroethane	63	4.533	4.533	(0.707)	528152	50.0000	58
24	Vinyl acetate	43	4.583	4.583	(0.714)	1638617	50.0000	59
28	cis-1,2-Dichloroethene	96	5.144	5.144	(0.802)	280415	50.0000	60
29	2,2-Dichloropropane	77	5.154	5.154	(0.803)	176456	50.0000	61
30	2-Butanone	72	5.164	5.164	(0.805)	36659	50.0000	57
34	Bromochloromethane	128	5.400	5.400	(0.842)	157798	50.0000	60
35	Chloroform	83	5.489	5.489	(0.856)	438720	50.0000	60
$ 36	Dibromofluoromethane	113	5.656	5.656	(0.882)	263461	50.0000	53
37	1,1,1-Trichloroethane	97	5.696	5.696	(0.888)	271267	50.0000	59
39	1,1-Dichloropropene	110	5.883	5.883	(0.917)	111612	50.0000	57

Data File: \\Avogadro\Organics\V1.I\110517.B\V1M1204.D
Report Date: 18-May-2011 13:43

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
	40	Carbon Tetrachloride	117	5.883	5.883	(0.917)	271436	50.0000	57
$	42	1,2-Dichloroethane-d4	102	6.040	6.040	(0.942)	54417	50.0000	53
	43	Benzene	78	6.109	6.109	(0.952)	905858	50.0000	58
	44	1,2-Dichloroethane	62	6.119	6.119	(0.954)	359359	50.0000	58
*	46	Fluorobenzene	96	6.415	6.415	(1.000)	836602	50.0000	
	47	Trichloroethene	130	6.828	6.828	(1.064)	263888	50.0000	57
	49	1,2-Dichloropropane	63	7.085	7.085	(1.104)	306798	50.0000	58
	52	Dibromomethane	93	7.222	7.222	(1.126)	177642	50.0000	58
	54	Bromodichloromethane	83	7.400	7.400	(1.154)	331161	50.0000	60
	56	cis-1,3-Dichloropropene	75	7.941	7.941	(1.238)	423223	50.0000	59
	57	4-Methyl-2-pentanone	43	8.129	8.129	(1.267)	473681	50.0000	61
$	58	Toluene-d8	98	8.276	8.276	(0.819)	711216	50.0000	47
	59	Toluene	91	8.355	8.355	(1.302)	926984	50.0000	59
	60	trans-1,3-Dichloropropene	75	8.621	8.621	(1.344)	378994	50.0000	58
	62	1,1,2-Trichloroethane	97	8.848	8.848	(1.379)	224352	50.0000	60
	63	Tetrachloroethene	164	9.045	9.045	(0.895)	177174	50.0000	53
	64	1,3-Dichloropropane	76	9.064	9.064	(0.897)	387714	50.0000	56
	65	2-Hexanone	43	9.173	9.173	(0.907)	311869	50.0000	52
	66	Dibromochloromethane	129	9.350	9.350	(0.925)	291991	50.0000	56
	67	1,2-Dibromoethane	107	9.508	9.508	(0.941)	267307	50.0000	58
*	68	Chlorobenzene-d5	117	10.108	10.108	(1.000)	622501	50.0000	
	70	Chlorobenzene	112	10.148	10.148	(1.004)	631639	50.0000	54
	71	1,1,1,2-Tetrachloroethane	131	10.246	10.246	(1.014)	262595	50.0000	57
	72	Ethylbenzene	106	10.295	10.295	(1.019)	313321	50.0000	54
	73	m,p-Xylene	106	10.443	10.443	(1.033)	787347	100.000	110
	74	o-Xylene	106	10.946	10.946	(1.083)	369744	50.0000	53
	75	Styrene	104	10.955	10.955	(1.084)	637881	50.0000	55
	76	Bromoform	173	11.172	11.172	(1.105)	172991	50.0000	59
	77	Isopropylbenzene	105	11.399	11.399	(1.128)	896654	50.0000	54
$	79	Bromofluorobenzene	95	11.586	11.586	(1.146)	304688	50.0000	49
	80	1,1,2,2-Tetrachloroethane	83	11.753	11.753	(0.908)	300896	50.0000	59
	81	Bromobenzene	156	11.763	11.763	(0.909)	259258	50.0000	57
	82	1,2,3-Trichloropropane	75	11.802	11.802	(0.912)	341562	50.0000	57
	83	n-Propylbenzene	120	11.901	11.901	(0.919)	228901	50.0000	56
	84	2-Chlorotoluene	126	11.999	11.999	(0.927)	235039	50.0000	56
	85	1,3,5-Trimethylbenzene	105	12.118	12.118	(0.936)	699137	50.0000	55
	86	4-Chlorotoluene	126	12.128	12.128	(0.937)	252066	50.0000	56
	87	tert-Butylbenzene	119	12.502	12.502	(0.966)	719637	50.0000	54
M	94	Xylene (Total)	106				1157091	150.000	160
	88	1,2,4-Trimethylbenzene	105	12.551	12.551	(0.970)	720078	50.0000	55
	89	sec-Butylbenzene	105	12.758	12.758	(0.986)	784889	50.0000	53
	90	1,3-Dichlorobenzene	146	12.876	12.876	(0.995)	431598	50.0000	56
	91	4-Isopropyltoluene	119	12.925	12.925	(0.998)	636346	50.0000	52
*	92	1,4-Dichlorobenzene-d4	152	12.945	12.945	(1.000)	294466	50.0000	
	93	1,4-Dichlorobenzene	146	12.975	12.975	(1.002)	457637	50.0000	57
	95	n-Butylbenzene	91	13.388	13.388	(1.034)	511736	50.0000	50
	96	1,2-Dichlorobenzene	146	13.398	13.398	(1.035)	427105	50.0000	57
	98	1,2-Dibromo-3-chloropropane	75	14.265	14.265	(1.102)	42004	50.0000	59
	99	1,2,4-Trichlorobenzene	180	15.171	15.171	(1.172)	150254	50.0000	48
	100	Hexachlorobutadiene	225	15.358	15.358	(1.186)	56656	50.0000	46
	101	Naphthalene	128	15.437	15.437	(1.192)	472051	50.0000	56
	102	1,2,3-Trichlorobenzene	180	15.693	15.693	(1.212)	131011	50.0000	52

Data File: \\Avogadro\Organics\V1.I\110517.B\V1M1204.D
Date : 17-MAY-2011 14:29
Client ID: SL-MW-4MSD
Instrument: V1.i
Sample Info: 5ML,K0834-12AMSD,,59208,
Purge Volume: 5.0
Operator: SZ SRC: LIMS
Column phase: DB-624
Column diameter: 0.25



1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-59186

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-59186

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1162.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 05/16/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
75-71-8	Dichlorodifluoromethane	55	
74-87-3	Chloromethane	62	
75-01-4	Vinyl chloride	58	
74-83-9	Bromomethane	59	
75-00-3	Chloroethane	62	
75-69-4	Trichlorofluoromethane	61	
75-35-4	1,1-Dichloroethene	57	
67-64-1	Acetone	51	
74-88-4	Iodomethane	58	
75-15-0	Carbon disulfide	57	
75-09-2	Methylene chloride	56	
156-60-5	trans-1,2-Dichloroethene	56	
1634-04-4	Methyl tert-butyl ether	58	
75-34-3	1,1-Dichloroethane	56	
108-05-4	Vinyl acetate	59	
78-93-3	2-Butanone	58	
156-59-2	cis-1,2-Dichloroethene	58	
594-20-7	2,2-Dichloropropane	56	
74-97-5	Bromochloromethane	58	
67-66-3	Chloroform	57	
71-55-6	1,1,1-Trichloroethane	55	
563-58-6	1,1-Dichloropropene	56	
56-23-5	Carbon tetrachloride	57	
107-06-2	1,2-Dichloroethane	58	
71-43-2	Benzene	58	
79-01-6	Trichloroethene	56	
78-87-5	1,2-Dichloropropane	56	
74-95-3	Dibromomethane	55	
75-27-4	Bromodichloromethane	58	
10061-01-5	cis-1,3-Dichloropropene	59	
108-10-1	4-Methyl-2-pentanone	58	
108-88-3	Toluene	57	
10061-02-6	trans-1,3-Dichloropropene	57	
79-00-5	1,1,2-Trichloroethane	56	
142-28-9	1,3-Dichloropropane	56	

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-59186

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-59186

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1162.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 05/16/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
127-18-4	Tetrachloroethene	51	
591-78-6	2-Hexanone	55	
124-48-1	Dibromochloromethane	56	
106-93-4	1,2-Dibromoethane	54	
108-90-7	Chlorobenzene	51	
630-20-6	1,1,1,2-Tetrachloroethane	54	
100-41-4	Ethylbenzene	52	
1330-20-7	m,p-Xylene	100	
95-47-6	o-Xylene	52	
1330-20-7	Xylene (Total)	160	
100-42-5	Styrene	54	
75-25-2	Bromoform	58	
98-82-8	Isopropylbenzene	51	
79-34-5	1,1,2,2-Tetrachloroethane	55	
108-86-1	Bromobenzene	54	
96-18-4	1,2,3-Trichloropropane	55	
103-65-1	n-Propylbenzene	50	
95-49-8	2-Chlorotoluene	53	
108-67-8	1,3,5-Trimethylbenzene	52	
106-43-4	4-Chlorotoluene	54	
98-06-6	tert-Butylbenzene	49	
95-63-6	1,2,4-Trimethylbenzene	51	
135-98-8	sec-Butylbenzene	48	
99-87-6	4-Isopropyltoluene	49	
541-73-1	1,3-Dichlorobenzene	52	
106-46-7	1,4-Dichlorobenzene	52	
104-51-8	n-Butylbenzene	48	
95-50-1	1,2-Dichlorobenzene	52	
96-12-8	1,2-Dibromo-3-chloropropane	51	
120-82-1	1,2,4-Trichlorobenzene	47	
87-68-3	Hexachlorobutadiene	46	
87-61-6	1,2,3-Trichlorobenzene	52	
91-20-3	Naphthalene	55	

Data File: \\avogadro\organics\V1.I\110516.B\V1M1162.D
Report Date: 17-May-2011 11:35

Mitkem Laboratories

Method 8260 Water and Medium Soil

Data file : \\avogadro\organics\V1.I\110516.B\V1M1162.D
Lab Smp Id: LCS-59186 Client Smp ID: LCS-59186
Inj Date : 16-MAY-2011 10:04
Operator : SZ SRC: LIMS Inst ID: V1.i
Smp Info : 5ML,LCS-59186,LCS-59186,59186
Misc Info :
Comment :
Method : \\Avogadro\Organics\V1.I\110516.B\v18260Gadd.m
Meth Date : 17-May-2011 11:20 vbrizard Quant Type: ISTD
Cal Date : 05-MAY-2011 12:19 Cal File: V1M1016.D
Als bottle: 29 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1	Dichlorodifluoromethane	85	1.707	1.703	(0.265)	252276	50.0000	55
2	Freon114	85	1.855	1.851	(0.287)	236503	50.0000	57
3	Chloromethane	50	1.904	1.900	(0.295)	524897	50.0000	62
4	Vinyl Chloride	62	2.032	2.028	(0.315)	347961	50.0000	58
5	Bromomethane	94	2.407	2.402	(0.373)	223190	50.0000	59
6	Chloroethane	64	2.525	2.520	(0.391)	192254	50.0000	62
7	Trichlorofluoromethane	101	2.791	2.786	(0.432)	367741	50.0000	61
126	Ethanol	46	2.988	2.973	(0.463)	249058	5000.00	6200(AQ)
8	Ether	59	3.096	3.092	(0.480)	323524	50.0000	60
9	Acrolein	56	3.224	3.220	(0.500)	353812	250.000	350(A)
10	1,1-Dichloroethene	96	3.352	3.348	(0.519)	273495	50.0000	57
11	1,1,2-Trichloro-1,2,2-Trifluo	101	3.372	3.348	(0.522)	238298	50.0000	61
12	Acetone	58	3.382	3.377	(0.524)	51533	50.0000	51
13	Iodomethane	142	3.510	3.515	(0.544)	474054	50.0000	58
14	Carbon Disulfide	76	3.579	3.574	(0.554)	897795	50.0000	57
15	Acetonitrile	41	3.707	3.702	(0.574)	1537346	500.000	600(A)
16	Allyl Chloride	39	3.717	3.702	(0.576)	606612	50.0000	59
17	Methyl Acetate	43	3.736	3.732	(0.579)	455071	50.0000	57
19	tert-Butanol	59	3.963	3.949	(0.614)	119752	100.000	120
18	Methylene Chloride	84	3.855	3.860	(0.597)	272870	50.0000	56
20	Acrylonitrile	53	4.091	4.086	(0.634)	161443	50.0000	58
21	trans-1,2-Dichloroethene	96	4.130	4.126	(0.640)	274939	50.0000	56
22	Methyl tert-butyl ether	73	4.140	4.125	(0.641)	668330	50.0000	58

Data File: \\avogadro\organics\V1.I\110516.B\V1M1162.D
Report Date: 17-May-2011 11:35

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 1,1-Dichloroethane	63	4.574	4.569	(0.709)	568858	50.0000	56
	24 Vinyl acetate	43	4.633	4.628	(0.718)	1841478	50.0000	59
	25 Diisopropyl Ether	45	4.652	4.648	(0.721)	1748691	50.0000	58
	26 2-Chloro-1,3-Butadiene	53	4.672	4.668	(0.724)	540378	50.0000	57
	27 Ethyl tert-butyl ether	59	5.036	5.032	(0.780)	895477	50.0000	58
	28 cis-1,2-Dichloroethene	96	5.194	5.190	(0.805)	303084	50.0000	58
	29 2,2-Dichloropropane	77	5.194	5.190	(0.805)	182508	50.0000	56
	30 2-Butanone	72	5.204	5.199	(0.806)	41217	50.0000	58
	32 Propionitrile	54	5.263	5.249	(0.815)	571134	500.000	580(A)
	33 Methacrylonitrile	41	5.430	5.416	(0.841)	663974	100.000	120
	34 Bromochloromethane	128	5.450	5.436	(0.844)	172589	50.0000	58
	31 Tetrahydrofuran	72	5.499	5.495	(0.852)	73947	100.000	120
	35 Chloroform	83	5.529	5.524	(0.857)	465992	50.0000	57
$	36 Dibromofluoromethane	113	5.706	5.701	(0.884)	289695	50.0000	52
	37 1,1,1-Trichloroethane	97	5.746	5.731	(0.890)	282257	50.0000	55
	38 Cyclohexane	56	5.815	5.800	(0.901)	484544	50.0000	57
	39 1,1-Dichloropropene	110	5.923	5.909	(0.918)	122146	50.0000	56
	40 Carbon Tetrachloride	117	5.933	5.918	(0.919)	304600	50.0000	57
	41 Isobutyl Alcohol	43	6.031	6.017	(0.934)	460942	1000.00	1200(A)
$	42 1,2-Dichloroethane-d4	102	6.071	6.076	(0.940)	57698	50.0000	50
	43 Benzene	78	6.149	6.145	(0.953)	1018464	50.0000	58
	44 1,2-Dichloroethane	62	6.159	6.145	(0.954)	407447	50.0000	58
	45 tert-Amyl methyl ether	73	6.278	6.263	(0.973)	657790	50.0000	58
M	50 1,2-Dichloroethene (Total)	96				578023	100.000	110
*	46 Fluorobenzene	96	6.455	6.450	(1.000)	936763	50.0000	
	47 Trichloroethene	130	6.878	6.864	(1.066)	287138	50.0000	56
	48 Methylcyclohexane	83	7.105	7.100	(1.101)	297015	50.0000	52
	49 1,2-Dichloropropane	63	7.125	7.110	(1.104)	329832	50.0000	56
	51 Methyl Methacrylate	69	7.253	7.248	(1.124)	227693	50.0000	58
	52 Dibromomethane	93	7.262	7.248	(1.125)	186537	50.0000	55
	53 1,4-Dioxane	88	7.272	7.278	(1.127)	15722	1000.00	1000(A)
	54 Bromodichloromethane	83	7.440	7.425	(1.153)	358416	50.0000	58
	55 2-Chloroethyl vinyl ether	63	7.794	7.780	(1.208)	103789	50.0000	64
	56 cis-1,3-Dichloropropene	75	7.982	7.967	(1.237)	472315	50.0000	58
	57 4-Methyl-2-pentanone	43	8.159	8.144	(1.264)	501078	50.0000	58
$	58 Toluene-d8	98	8.307	8.302	(0.819)	815396	50.0000	49
	59 Toluene	91	8.395	8.381	(1.301)	1001348	50.0000	57
	60 trans-1,3-Dichloropropene	75	8.651	8.637	(1.340)	420606	50.0000	57
	61 Ethyl Methacrylate	69	8.769	8.755	(1.359)	361645	50.0000	60
	62 1,1,2-Trichloroethane	97	8.878	8.864	(1.375)	235035	50.0000	56
	63 Tetrachloroethene	164	9.085	9.070	(0.896)	189504	50.0000	51
	64 1,3-Dichloropropane	76	9.095	9.080	(0.897)	430552	50.0000	56
	65 2-Hexanone	43	9.193	9.189	(0.907)	370125	50.0000	55
	66 Dibromochloromethane	129	9.380	9.376	(0.925)	325825	50.0000	56
	67 1,2-Dibromoethane	107	9.528	9.523	(0.940)	276911	50.0000	54
	69 1-Chlorohexane	91	10.148	10.134	(1.001)	302809	50.0000	48
*	68 Chlorobenzene-d5	117	10.139	10.134	(1.000)	693687	50.0000	
	70 Chlorobenzene	112	10.178	10.164	(1.004)	661378	50.0000	51
	71 1,1,1,2-Tetrachloroethane	131	10.276	10.262	(1.014)	276708	50.0000	54
	72 Ethylbenzene	106	10.316	10.311	(1.017)	335816	50.0000	52
	73 m,p-Xylene	106	10.473	10.459	(1.033)	832520	100.000	100
	74 o-Xylene	106	10.966	10.961	(1.082)	398589	50.0000	52
	75 Styrene	104	10.986	10.971	(1.084)	693368	50.0000	54
	76 Bromoform	173	11.202	11.188	(1.105)	188535	50.0000	58

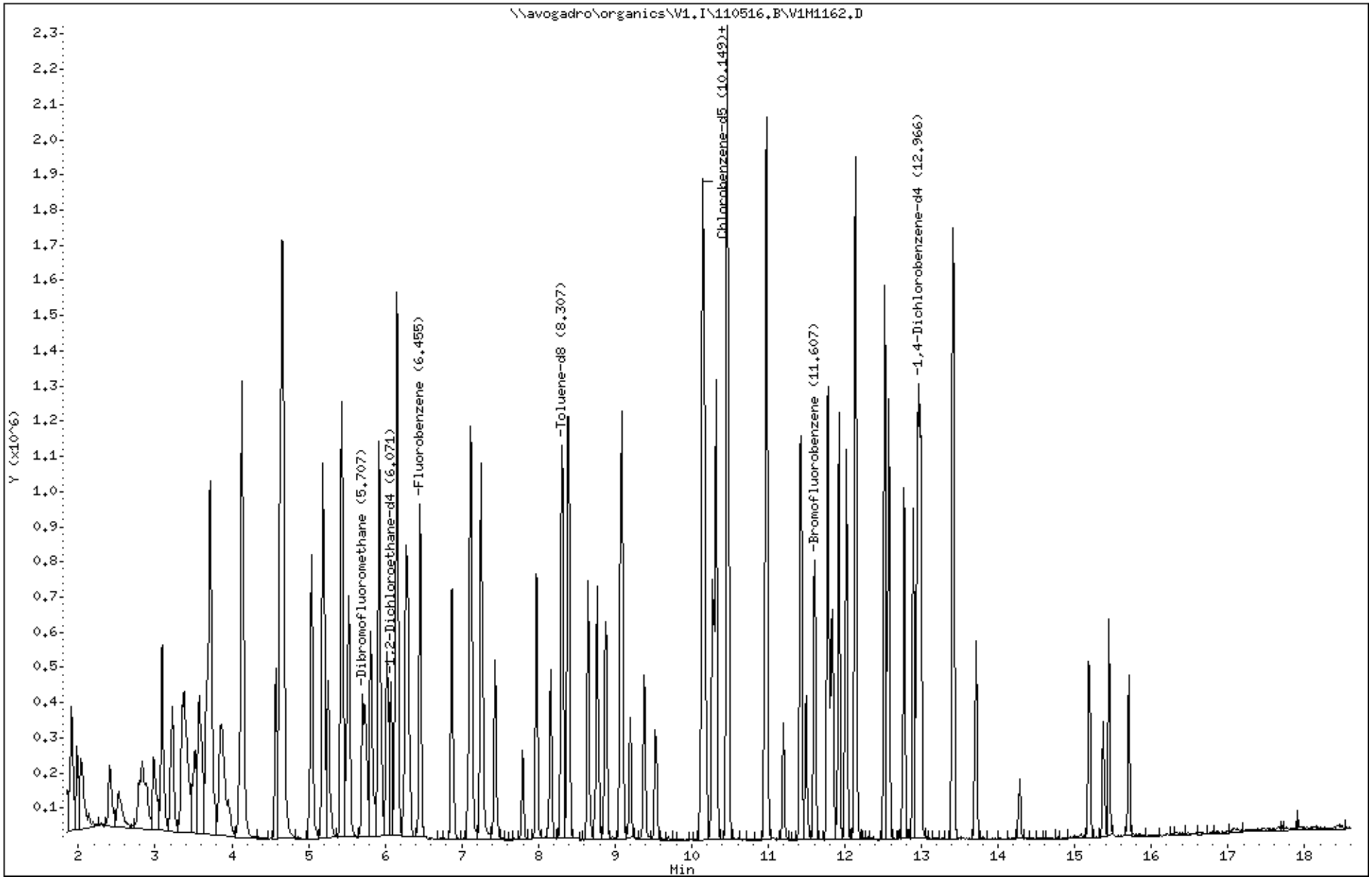
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Report Date: 17-May-2011 11:35

							AMOUNTS	
		QUANT SIG					CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
	77 Isopropylbenzene	105	11.429	11.414	(1.127)	932756	50.0000	51
	78 trans-1,4-Dichloro-2-butene	75	11.498	11.483	(1.134)	108598	50.0000	56
$	79 Bromofluorobenzene	95	11.606	11.591	(1.145)	342767	50.0000	50
	80 1,1,2,2-Tetrachloroethane	83	11.774	11.759	(0.908)	315370	50.0000	55
	81 Bromobenzene	156	11.783	11.779	(0.909)	275874	50.0000	54
	82 1,2,3-Trichloropropane	75	11.833	11.818	(0.913)	374289	50.0000	55
	83 n-Propylbenzene	120	11.921	11.917	(0.919)	233213	50.0000	50
	84 2-Chlorotoluene	126	12.020	12.006	(0.927)	254241	50.0000	53
	85 1,3,5-Trimethylbenzene	105	12.128	12.123	(0.935)	740943	50.0000	52
	86 4-Chlorotoluene	126	12.148	12.134	(0.937)	272347	50.0000	54
M	94 Xylene (Total)	106				1231109	150.000	160
	87 tert-Butylbenzene	119	12.522	12.517	(0.966)	733910	50.0000	49
	88 1,2,4-Trimethylbenzene	105	12.571	12.567	(0.970)	758497	50.0000	51
	89 sec-Butylbenzene	105	12.768	12.764	(0.985)	810355	50.0000	48
	90 1,3-Dichlorobenzene	146	12.896	12.882	(0.995)	459260	50.0000	52
	91 4-Isopropyltoluene	119	12.946	12.941	(0.998)	667555	50.0000	49
*	92 1,4-Dichlorobenzene-d4	152	12.965	12.961	(1.000)	331906	50.0000	
	93 1,4-Dichlorobenzene	146	12.995	12.990	(1.002)	468882	50.0000	52
	95 n-Butylbenzene	91	13.409	13.404	(1.034)	549752	50.0000	48
	96 1,2-Dichlorobenzene	146	13.418	13.414	(1.035)	443741	50.0000	52
	97 Hexachloroethane	117	13.704	13.700	(1.057)	160105	50.0000	50
	98 1,2-Dibromo-3-chloropropane	75	14.275	14.271	(1.101)	41375	50.0000	51
	99 1,2,4-Trichlorobenzene	180	15.191	15.187	(1.172)	167852	50.0000	47
	100 Hexachlorobutadiene	225	15.379	15.374	(1.186)	63222	50.0000	46
	101 Naphthalene	128	15.447	15.443	(1.191)	524000	50.0000	55
	102 1,2,3-Trichlorobenzene	180	15.704	15.699	(1.211)	146643	50.0000	52

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\avogadro\organics\V1.I\110516.B\V1M1162.D
Date : 16-MAY-2011 10:04
Client ID: LCS-59186
Instrument: V1.i
Sample Info: 5ML,LCS-59186,LCS-59186,59186
Purge Volume: 5.0
Operator: SZ SRC: LIMS
Column phase: DB-624
Column diameter: 0.25



1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-59208

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-59208

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1193.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 05/17/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
75-71-8	Dichlorodifluoromethane	42	
74-87-3	Chloromethane	46	
75-01-4	Vinyl chloride	45	
74-83-9	Bromomethane	48	
75-00-3	Chloroethane	51	
75-69-4	Trichlorofluoromethane	48	
75-35-4	1,1-Dichloroethene	47	
67-64-1	Acetone	59	
74-88-4	Iodomethane	50	
75-15-0	Carbon disulfide	45	
75-09-2	Methylene chloride	51	
156-60-5	trans-1,2-Dichloroethene	48	
1634-04-4	Methyl tert-butyl ether	55	
75-34-3	1,1-Dichloroethane	47	
108-05-4	Vinyl acetate	55	
78-93-3	2-Butanone	59	
156-59-2	cis-1,2-Dichloroethene	50	
594-20-7	2,2-Dichloropropane	50	
74-97-5	Bromochloromethane	53	
67-66-3	Chloroform	50	
71-55-6	1,1,1-Trichloroethane	48	
563-58-6	1,1-Dichloropropene	49	
56-23-5	Carbon tetrachloride	46	
107-06-2	1,2-Dichloroethane	51	
71-43-2	Benzene	48	
79-01-6	Trichloroethene	47	
78-87-5	1,2-Dichloropropane	50	
74-95-3	Dibromomethane	52	
75-27-4	Bromodichloromethane	50	
10061-01-5	cis-1,3-Dichloropropene	54	
108-10-1	4-Methyl-2-pentanone	59	
108-88-3	Toluene	49	
10061-02-6	trans-1,3-Dichloropropene	54	
79-00-5	1,1,2-Trichloroethane	56	
142-28-9	1,3-Dichloropropane	53	

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-59208

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-59208

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1193.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 05/17/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
127-18-4	Tetrachloroethene	45	
591-78-6	2-Hexanone	57	
124-48-1	Dibromochloromethane	53	
106-93-4	1,2-Dibromoethane	53	
108-90-7	Chlorobenzene	47	
630-20-6	1,1,1,2-Tetrachloroethane	50	
100-41-4	Ethylbenzene	47	
1330-20-7	m,p-Xylene	95	
95-47-6	o-Xylene	48	
1330-20-7	Xylene (Total)	140	
100-42-5	Styrene	49	
75-25-2	Bromoform	58	
98-82-8	Isopropylbenzene	47	
79-34-5	1,1,2,2-Tetrachloroethane	55	
108-86-1	Bromobenzene	49	
96-18-4	1,2,3-Trichloropropane	59	
103-65-1	n-Propylbenzene	46	
95-49-8	2-Chlorotoluene	47	
108-67-8	1,3,5-Trimethylbenzene	47	
106-43-4	4-Chlorotoluene	47	
98-06-6	tert-Butylbenzene	47	
95-63-6	1,2,4-Trimethylbenzene	48	
135-98-8	sec-Butylbenzene	46	
99-87-6	4-Isopropyltoluene	45	
541-73-1	1,3-Dichlorobenzene	48	
106-46-7	1,4-Dichlorobenzene	48	
104-51-8	n-Butylbenzene	44	
95-50-1	1,2-Dichlorobenzene	50	
96-12-8	1,2-Dibromo-3-chloropropane	56	
120-82-1	1,2,4-Trichlorobenzene	45	
87-68-3	Hexachlorobutadiene	43	
87-61-6	1,2,3-Trichlorobenzene	46	
91-20-3	Naphthalene	50	

Data File: \\Avogadro\Organics\V1.I\110517.B\V1M1193.D
Report Date: 18-May-2011 13:43

Mitkem Laboratories

Method 8260 Water and Medium Soil

Data file : \\Avogadro\Organics\V1.I\110517.B\V1M1193.D
Lab Smp Id: LCS-59208 Client Smp ID: LCS-59208
Inj Date : 17-MAY-2011 09:11
Operator : SZ SRC: LIMS Inst ID: V1.i
Smp Info : 5ML,LCS-59208,LCS-59208,59208
Misc Info :
Comment :
Method : \\Avogadro\Organics\V1.I\110517.B\v18260Gadd.m
Meth Date : 18-May-2011 13:41 amarquis Quant Type: ISTD
Cal Date : 05-MAY-2011 12:19 Cal File: V1M1016.D
Als bottle: 30 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1	Dichlorodifluoromethane	85	1.702	1.697	(0.265)	186185	50.0000	42
2	Freon114	85	1.840	1.840	(0.287)	186546	50.0000	47
3	Chloromethane	50	1.889	1.894	(0.294)	372616	50.0000	46
4	Vinyl Chloride	62	2.017	2.012	(0.314)	261445	50.0000	45
5	Bromomethane	94	2.392	2.386	(0.373)	172407	50.0000	48
6	Chloroethane	64	2.500	2.504	(0.389)	151339	50.0000	50
7	Trichlorofluoromethane	101	2.776	2.770	(0.432)	279462	50.0000	48
126	Ethanol	46	2.953	2.953	(0.460)	273191	5000.00	7000(A)
8	Ether	59	3.061	3.061	(0.477)	282722	50.0000	55
9	Acrolein	56	3.189	3.189	(0.497)	353341	250.000	360(A)
10	1,1-Dichloroethene	96	3.327	3.322	(0.518)	215950	50.0000	47
11	1,1,2-Trichloro-1,2,2-Trifluo	101	3.327	3.327	(0.518)	201285	50.0000	54
12	Acetone	58	3.357	3.342	(0.523)	57670	50.0000	59
13	Iodomethane	142	3.485	3.480	(0.543)	391470	50.0000	50
14	Carbon Disulfide	76	3.554	3.549	(0.554)	686936	50.0000	45
15	Acetonitrile	41	3.682	3.682	(0.574)	1445252	500.000	590(A)
16	Allyl Chloride	39	3.682	3.682	(0.574)	528284	50.0000	53
17	Methyl Acetate	43	3.702	3.702	(0.577)	445327	50.0000	58
19	tert-Butanol	59	3.928	3.928	(0.612)	116982	100.000	120
18	Methylene Chloride	84	3.830	3.824	(0.597)	234791	50.0000	50
20	Acrylonitrile	53	4.056	4.056	(0.632)	162264	50.0000	61
21	trans-1,2-Dichloroethene	96	4.096	4.100	(0.638)	224504	50.0000	48
22	Methyl tert-butyl ether	73	4.105	4.100	(0.639)	605619	50.0000	55

Data File: \\Avogadro\Organics\V1.I\110517.B\V1M1193.D
Report Date: 18-May-2011 13:43

							AMOUNTS	
		QUANT SIG					CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
	23 1,1-Dichloroethane	63	4.539	4.533	(0.707)	463173	50.0000	47
	24 Vinyl acetate	43	4.598	4.583	(0.716)	1645712	50.0000	55
	25 Diisopropyl Ether	45	4.618	4.618	(0.719)	1483430	50.0000	52
	26 2-Chloro-1,3-Butadiene	53	4.637	4.637	(0.722)	432915	50.0000	48
	27 Ethyl tert-butyl ether	59	5.002	5.002	(0.779)	804682	50.0000	54
	28 cis-1,2-Dichloroethene	96	5.149	5.144	(0.802)	249211	50.0000	50
	29 2,2-Dichloropropane	77	5.159	5.154	(0.804)	154019	50.0000	50
	30 2-Butanone	72	5.159	5.164	(0.804)	40231	50.0000	59
	32 Propionitrile	54	5.218	5.218	(0.813)	580842	500.000	620(A)
	33 Methacrylonitrile	41	5.386	5.386	(0.839)	651860	100.000	120
	34 Bromochloromethane	128	5.406	5.400	(0.842)	151850	50.0000	53
	31 Tetrahydrofuran	72	5.465	5.465	(0.851)	72464	100.000	120
	35 Chloroform	83	5.494	5.489	(0.856)	391057	50.0000	50
$	36 Dibromofluoromethane	113	5.671	5.656	(0.883)	274829	50.0000	52
	37 1,1,1-Trichloroethane	97	5.711	5.696	(0.890)	233390	50.0000	48
	38 Cyclohexane	56	5.780	5.780	(0.900)	421565	50.0000	51
	39 1,1-Dichloropropene	110	5.888	5.883	(0.917)	101601	50.0000	49
	40 Carbon Tetrachloride	117	5.898	5.883	(0.919)	232971	50.0000	46
	41 Isobutyl Alcohol	43	5.987	5.987	(0.933)	444765	1000.00	1200(A)
$	42 1,2-Dichloroethane-d4	102	6.036	6.040	(0.940)	56370	50.0000	51
	43 Benzene	78	6.115	6.109	(0.952)	817887	50.0000	48
	44 1,2-Dichloroethane	62	6.125	6.119	(0.954)	345281	50.0000	51
	45 tert-Amyl methyl ether	73	6.243	6.243	(0.972)	572445	50.0000	53
M	50 1,2-Dichloroethene (Total)	96				473715	100.000	97
*	46 Fluorobenzene	96	6.420	6.415	(1.000)	898272	50.0000	
	47 Trichloroethene	130	6.844	6.828	(1.066)	233762	50.0000	47
	48 Methylcyclohexane	83	7.080	7.080	(1.103)	258225	50.0000	47
	49 1,2-Dichloropropane	63	7.090	7.085	(1.104)	280270	50.0000	50
	51 Methyl Methacrylate	69	7.218	7.218	(1.124)	218268	50.0000	58
	52 Dibromomethane	93	7.228	7.222	(1.126)	168254	50.0000	52
	53 1,4-Dioxane	88	7.247	7.247	(1.129)	22152	1000.00	1500(A)
	54 Bromodichloromethane	83	7.415	7.400	(1.155)	299779	50.0000	50
	55 2-Chloroethyl vinyl ether	63	7.769	7.769	(1.210)	83161	50.0000	54
	56 cis-1,3-Dichloropropene	75	7.947	7.941	(1.238)	417657	50.0000	54
	57 4-Methyl-2-pentanone	43	8.124	8.129	(1.265)	486695	50.0000	59
$	58 Toluene-d8	98	8.282	8.276	(0.819)	786794	50.0000	50
	59 Toluene	91	8.360	8.355	(1.302)	822111	50.0000	48
	60 trans-1,3-Dichloropropene	75	8.626	8.621	(1.344)	380725	50.0000	54
	61 Ethyl Methacrylate	69	8.745	8.745	(1.362)	328006	50.0000	57
	62 1,1,2-Trichloroethane	97	8.853	8.848	(1.379)	223831	50.0000	56
	63 Tetrachloroethene	164	9.050	9.045	(0.895)	155564	50.0000	45
	64 1,3-Dichloropropane	76	9.070	9.064	(0.897)	382304	50.0000	53
	65 2-Hexanone	43	9.168	9.173	(0.907)	356603	50.0000	57
	66 Dibromochloromethane	129	9.355	9.350	(0.925)	286997	50.0000	52
	67 1,2-Dibromoethane	107	9.503	9.508	(0.940)	254681	50.0000	53
	69 1-Chlorohexane	91	10.124	10.124	(1.001)	271559	50.0000	46
*	68 Chlorobenzene-d5	117	10.114	10.108	(1.000)	649180	50.0000	
	70 Chlorobenzene	112	10.143	10.148	(1.003)	573705	50.0000	47
	71 1,1,1,2-Tetrachloroethane	131	10.252	10.246	(1.014)	238627	50.0000	50
	72 Ethylbenzene	106	10.291	10.295	(1.018)	284713	50.0000	47
	73 m,p-Xylene	106	10.439	10.443	(1.032)	708334	100.000	95
	74 o-Xylene	106	10.941	10.946	(1.082)	347286	50.0000	48
	75 Styrene	104	10.961	10.955	(1.084)	594945	50.0000	49
	76 Bromoform	173	11.177	11.172	(1.105)	177513	50.0000	58

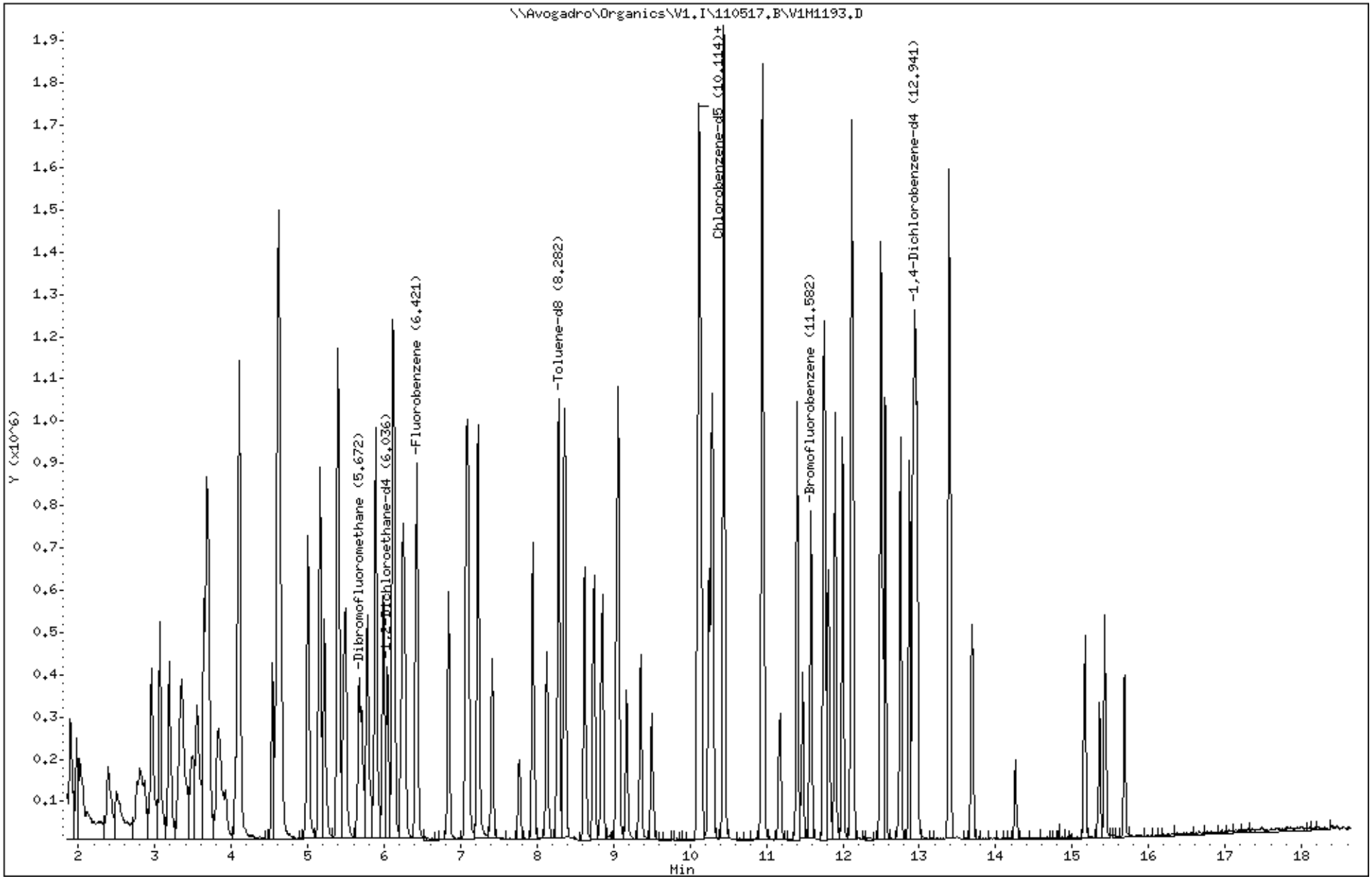
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Report Date: 18-May-2011 13:43

							AMOUNTS	
		QUANT SIG					CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
	77 Isopropylbenzene	105	11.404	11.399	(1.128)	812244	50.0000	47
	78 trans-1,4-Dichloro-2-butene	75	11.473	11.473	(1.134)	108097	50.0000	60
$	79 Bromofluorobenzene	95	11.581	11.586	(1.145)	337254	50.0000	52
	80 1,1,2,2-Tetrachloroethane	83	11.749	11.753	(0.907)	305108	50.0000	55
	81 Bromobenzene	156	11.759	11.763	(0.908)	243354	50.0000	49
	82 1,2,3-Trichloropropane	75	11.808	11.802	(0.912)	381418	50.0000	59
	83 n-Propylbenzene	120	11.896	11.901	(0.919)	203655	50.0000	46
	84 2-Chlorotoluene	126	11.995	11.999	(0.926)	214788	50.0000	47
	85 1,3,5-Trimethylbenzene	105	12.113	12.118	(0.935)	648676	50.0000	47
	86 4-Chlorotoluene	126	12.123	12.128	(0.936)	226592	50.0000	47
M	94 Xylene (Total)	106				1055620	150.000	140
	87 tert-Butylbenzene	119	12.497	12.502	(0.965)	670113	50.0000	47
	88 1,2,4-Trimethylbenzene	105	12.556	12.551	(0.970)	676828	50.0000	48
	89 sec-Butylbenzene	105	12.753	12.758	(0.985)	742651	50.0000	46
	90 1,3-Dichlorobenzene	146	12.872	12.876	(0.994)	405404	50.0000	48
	91 4-Isopropyltoluene	119	12.921	12.925	(0.998)	593281	50.0000	45
*	92 1,4-Dichlorobenzene-d4	152	12.950	12.945	(1.000)	317777	50.0000	
	93 1,4-Dichlorobenzene	146	12.970	12.975	(1.002)	413933	50.0000	48
	95 n-Butylbenzene	91	13.384	13.388	(1.033)	486912	50.0000	44
	96 1,2-Dichlorobenzene	146	13.403	13.398	(1.035)	402430	50.0000	50
	97 Hexachloroethane	117	13.689	13.689	(1.057)	140393	50.0000	46
	98 1,2-Dibromo-3-chloropropane	75	14.260	14.265	(1.101)	43350	50.0000	56
	99 1,2,4-Trichlorobenzene	180	15.167	15.171	(1.171)	153758	50.0000	45
	100 Hexachlorobutadiene	225	15.354	15.358	(1.186)	57003	50.0000	43
	101 Naphthalene	128	15.432	15.437	(1.192)	451846	50.0000	50
	102 1,2,3-Trichlorobenzene	180	15.689	15.693	(1.211)	124120	50.0000	46

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\Avogadro\Organics\V1.I\110517.B\V1M1193.D
Date : 17-MAY-2011 09:11
Client ID: LCS-59208
Instrument: V1.i
Sample Info: 5ML,LCS-59208,LCS-59208,59208
Purge Volume: 5.0
Operator: SZ SRC: LIMS
Column phase: DB-624
Column diameter: 0.25



1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSD-59186

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCSD-59186

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1163.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 05/16/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
75-71-8	Dichlorodifluoromethane	44	
74-87-3	Chloromethane	51	
75-01-4	Vinyl chloride	47	
74-83-9	Bromomethane	47	
75-00-3	Chloroethane	47	
75-69-4	Trichlorofluoromethane	47	
75-35-4	1,1-Dichloroethene	47	
67-64-1	Acetone	48	
74-88-4	Iodomethane	50	
75-15-0	Carbon disulfide	46	
75-09-2	Methylene chloride	49	
156-60-5	trans-1,2-Dichloroethene	48	
1634-04-4	Methyl tert-butyl ether	52	
75-34-3	1,1-Dichloroethane	46	
108-05-4	Vinyl acetate	53	
78-93-3	2-Butanone	56	
156-59-2	cis-1,2-Dichloroethene	48	
594-20-7	2,2-Dichloropropane	49	
74-97-5	Bromochloromethane	52	
67-66-3	Chloroform	48	
71-55-6	1,1,1-Trichloroethane	47	
563-58-6	1,1-Dichloropropene	47	
56-23-5	Carbon tetrachloride	46	
107-06-2	1,2-Dichloroethane	51	
71-43-2	Benzene	48	
79-01-6	Trichloroethene	46	
78-87-5	1,2-Dichloropropane	50	
74-95-3	Dibromomethane	47	
75-27-4	Bromodichloromethane	48	
10061-01-5	cis-1,3-Dichloropropene	51	
108-10-1	4-Methyl-2-pentanone	56	
108-88-3	Toluene	48	
10061-02-6	trans-1,3-Dichloropropene	50	
79-00-5	1,1,2-Trichloroethane	51	
142-28-9	1,3-Dichloropropane	47	

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSD-59186

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCSD-59186

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1163.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 05/16/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
127-18-4	Tetrachloroethene	45	
591-78-6	2-Hexanone	50	
124-48-1	Dibromochloromethane	47	
106-93-4	1,2-Dibromoethane	49	
108-90-7	Chlorobenzene	45	
630-20-6	1,1,1,2-Tetrachloroethane	47	
100-41-4	Ethylbenzene	45	
1330-20-7	m,p-Xylene	91	
95-47-6	o-Xylene	45	
1330-20-7	Xylene (Total)	140	
100-42-5	Styrene	46	
75-25-2	Bromoform	49	
98-82-8	Isopropylbenzene	47	
79-34-5	1,1,2,2-Tetrachloroethane	51	
108-86-1	Bromobenzene	48	
96-18-4	1,2,3-Trichloropropane	54	
103-65-1	n-Propylbenzene	47	
95-49-8	2-Chlorotoluene	48	
108-67-8	1,3,5-Trimethylbenzene	47	
106-43-4	4-Chlorotoluene	48	
98-06-6	tert-Butylbenzene	48	
95-63-6	1,2,4-Trimethylbenzene	48	
135-98-8	sec-Butylbenzene	45	
99-87-6	4-Isopropyltoluene	47	
541-73-1	1,3-Dichlorobenzene	48	
106-46-7	1,4-Dichlorobenzene	47	
104-51-8	n-Butylbenzene	47	
95-50-1	1,2-Dichlorobenzene	48	
96-12-8	1,2-Dibromo-3-chloropropane	53	
120-82-1	1,2,4-Trichlorobenzene	46	
87-68-3	Hexachlorobutadiene	43	
87-61-6	1,2,3-Trichlorobenzene	50	
91-20-3	Naphthalene	53	

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSD-59186

Lab Name: SPECTRUM ANALYTICAL, INC. FEATURIN Contract:

Lab Code: MITKEM Case No.: K0834 Mod. Ref No.: SDG No.: SK0834

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCSD-59186

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M1163.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 05/16/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
127-18-4	Tetrachloroethene	45	
591-78-6	2-Hexanone	50	
124-48-1	Dibromochloromethane	47	
106-93-4	1,2-Dibromoethane	49	
108-90-7	Chlorobenzene	45	
630-20-6	1,1,1,2-Tetrachloroethane	47	
100-41-4	Ethylbenzene	45	
1330-20-7	m,p-Xylene	91	
95-47-6	o-Xylene	45	
1330-20-7	Xylene (Total)	140	
100-42-5	Styrene	46	
75-25-2	Bromoform	49	
98-82-8	Isopropylbenzene	47	
79-34-5	1,1,2,2-Tetrachloroethane	51	
108-86-1	Bromobenzene	48	
96-18-4	1,2,3-Trichloropropane	54	
103-65-1	n-Propylbenzene	47	
95-49-8	2-Chlorotoluene	48	
108-67-8	1,3,5-Trimethylbenzene	47	
106-43-4	4-Chlorotoluene	48	
98-06-6	tert-Butylbenzene	48	
95-63-6	1,2,4-Trimethylbenzene	48	
135-98-8	sec-Butylbenzene	45	
99-87-6	4-Isopropyltoluene	47	
541-73-1	1,3-Dichlorobenzene	48	
106-46-7	1,4-Dichlorobenzene	47	
104-51-8	n-Butylbenzene	47	
95-50-1	1,2-Dichlorobenzene	48	
96-12-8	1,2-Dibromo-3-chloropropane	53	
120-82-1	1,2,4-Trichlorobenzene	46	
87-68-3	Hexachlorobutadiene	43	
87-61-6	1,2,3-Trichlorobenzene	50	
91-20-3	Naphthalene	53	

Data File: \\avogadro\organics\V1.I\110516.B\V1M1163.D
Report Date: 17-May-2011 11:35

Mitkem Laboratories

Method 8260 Water and Medium Soil

Data file : \\avogadro\organics\V1.I\110516.B\V1M1163.D
Lab Smp Id: LCSD-59186 Client Smp ID: LCSD-59186
Inj Date : 16-MAY-2011 10:30
Operator : SZ SRC: LIMS Inst ID: V1.i
Smp Info : 5ML,LCSD-59186,LCSD-59186,59186
Misc Info :
Comment :
Method : \\Avogadro\Organics\V1.I\110516.B\v18260Gadd.m
Meth Date : 17-May-2011 11:20 vbrizard Quant Type: ISTD
Cal Date : 05-MAY-2011 12:19 Cal File: V1M1016.D
Als bottle: 30 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1	Dichlorodifluoromethane	85	1.703	1.703	(0.264)	193041	50.0000	44
2	Freon114	85	1.851	1.851	(0.287)	172065	50.0000	43
3	Chloromethane	50	1.900	1.900	(0.295)	412257	50.0000	51
4	Vinyl Chloride	62	2.028	2.028	(0.314)	271984	50.0000	47
5	Bromomethane	94	2.402	2.402	(0.372)	170209	50.0000	47
6	Chloroethane	64	2.520	2.520	(0.391)	142560	50.0000	47
7	Trichlorofluoromethane	101	2.786	2.786	(0.432)	274514	50.0000	47
126	Ethanol	46	2.973	2.973	(0.461)	214705	5000.00	5500(A)
8	Ether	59	3.092	3.092	(0.479)	276582	50.0000	54
9	Acrolein	56	3.220	3.220	(0.499)	328125	250.000	340(A)
10	1,1-Dichloroethene	96	3.348	3.348	(0.519)	218081	50.0000	47
11	1,1,2-Trichloro-1,2,2-Trifluo	101	3.348	3.348	(0.519)	202921	50.0000	54
12	Acetone	58	3.377	3.377	(0.524)	46937	50.0000	48
13	Iodomethane	142	3.515	3.515	(0.545)	390307	50.0000	50
14	Carbon Disulfide	76	3.574	3.574	(0.554)	705392	50.0000	46
15	Acetonitrile	41	3.702	3.702	(0.574)	1362880	500.000	550(A)
16	Allyl Chloride	39	3.702	3.702	(0.574)	507884	50.0000	51
17	Methyl Acetate	43	3.732	3.732	(0.579)	416305	50.0000	54
19	tert-Butanol	59	3.949	3.949	(0.612)	106538	100.000	110
18	Methylene Chloride	84	3.860	3.860	(0.598)	228298	50.0000	49
20	Acrylonitrile	53	4.086	4.086	(0.634)	143878	50.0000	54
21	trans-1,2-Dichloroethene	96	4.126	4.126	(0.640)	228339	50.0000	48
22	Methyl tert-butyl ether	73	4.136	4.125	(0.641)	567532	50.0000	52

Data File: \\avogadro\organics\V1.I\110516.B\V1M1163.D
Report Date: 17-May-2011 11:35

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 1,1-Dichloroethane	63	4.569	4.569	(0.708)	454373	50.0000	46
	24 Vinyl acetate	43	4.628	4.628	(0.718)	1584828	50.0000	53
	25 Diisopropyl Ether	45	4.648	4.648	(0.721)	1470228	50.0000	51
	26 2-Chloro-1,3-Butadiene	53	4.668	4.668	(0.724)	430857	50.0000	47
	27 Ethyl tert-butyl ether	59	5.032	5.032	(0.780)	757711	50.0000	51
	28 cis-1,2-Dichloroethene	96	5.190	5.190	(0.805)	244435	50.0000	48
	29 2,2-Dichloropropane	77	5.190	5.190	(0.805)	152161	50.0000	49
	30 2-Butanone	72	5.199	5.199	(0.806)	38396	50.0000	56
	32 Propionitrile	54	5.249	5.249	(0.814)	530832	500.000	560(A)
	33 Methacrylonitrile	41	5.416	5.416	(0.840)	596545	100.000	110
	34 Bromochloromethane	128	5.436	5.436	(0.843)	148912	50.0000	52
	31 Tetrahydrofuran	72	5.495	5.495	(0.852)	66223	100.000	110
	35 Chloroform	83	5.524	5.524	(0.856)	376770	50.0000	48
$	36 Dibromofluoromethane	113	5.692	5.701	(0.882)	273264	50.0000	51
	37 1,1,1-Trichloroethane	97	5.731	5.731	(0.889)	232258	50.0000	47
	38 Cyclohexane	56	5.800	5.800	(0.899)	397092	50.0000	48
	39 1,1-Dichloropropene	110	5.909	5.909	(0.916)	98683	50.0000	47
	40 Carbon Tetrachloride	117	5.918	5.918	(0.918)	238157	50.0000	46
	41 Isobutyl Alcohol	43	6.017	6.017	(0.933)	415124	1000.00	1200(A)
$	42 1,2-Dichloroethane-d4	102	6.066	6.076	(0.940)	57287	50.0000	52
	43 Benzene	78	6.145	6.145	(0.953)	807891	50.0000	48
	44 1,2-Dichloroethane	62	6.145	6.145	(0.953)	340056	50.0000	50
	45 tert-Amyl methyl ether	73	6.263	6.263	(0.971)	545940	50.0000	50
M	50 1,2-Dichloroethene (Total)	96				472774	100.000	97
*	46 Fluorobenzene	96	6.450	6.450	(1.000)	900947	50.0000	
	47 Trichloroethene	130	6.864	6.864	(1.064)	230091	50.0000	46
	48 Methylcyclohexane	83	7.100	7.100	(1.101)	262257	50.0000	48
	49 1,2-Dichloropropane	63	7.110	7.110	(1.102)	281068	50.0000	50
	51 Methyl Methacrylate	69	7.248	7.248	(1.124)	202575	50.0000	54
	52 Dibromomethane	93	7.248	7.248	(1.124)	154688	50.0000	47
	53 1,4-Dioxane	88	7.278	7.278	(1.128)	16263	1000.00	1100(A)
	54 Bromodichloromethane	83	7.425	7.425	(1.151)	288777	50.0000	48
	55 2-Chloroethyl vinyl ether	63	7.780	7.780	(1.206)	92783	50.0000	60
	56 cis-1,3-Dichloropropene	75	7.967	7.967	(1.235)	399322	50.0000	51
	57 4-Methyl-2-pentanone	43	8.144	8.144	(1.263)	460968	50.0000	56
$	58 Toluene-d8	98	8.302	8.302	(0.820)	797331	50.0000	48
	59 Toluene	91	8.381	8.381	(1.299)	817523	50.0000	48
	60 trans-1,3-Dichloropropene	75	8.637	8.637	(1.339)	353095	50.0000	50
	61 Ethyl Methacrylate	69	8.755	8.755	(1.357)	312526	50.0000	54
	62 1,1,2-Trichloroethane	97	8.864	8.864	(1.374)	203255	50.0000	51
	63 Tetrachloroethene	164	9.070	9.070	(0.896)	163005	50.0000	45
	64 1,3-Dichloropropane	76	9.080	9.080	(0.897)	353227	50.0000	47
	65 2-Hexanone	43	9.189	9.189	(0.908)	332007	50.0000	50
	66 Dibromochloromethane	129	9.376	9.376	(0.926)	267475	50.0000	47
	67 1,2-Dibromoethane	107	9.523	9.523	(0.941)	243685	50.0000	48
	69 1-Chlorohexane	91	10.134	10.134	(1.001)	278226	50.0000	45
*	68 Chlorobenzene-d5	117	10.124	10.134	(1.000)	680538	50.0000	
	70 Chlorobenzene	112	10.164	10.164	(1.004)	570031	50.0000	45
	71 1,1,1,2-Tetrachloroethane	131	10.262	10.262	(1.014)	235170	50.0000	47
	72 Ethylbenzene	106	10.311	10.311	(1.018)	285476	50.0000	45
	73 m,p-Xylene	106	10.459	10.459	(1.033)	713125	100.000	91
	74 o-Xylene	106	10.961	10.961	(1.083)	342609	50.0000	45
	75 Styrene	104	10.971	10.971	(1.084)	577129	50.0000	46
	76 Bromoform	173	11.188	11.188	(1.105)	156873	50.0000	49

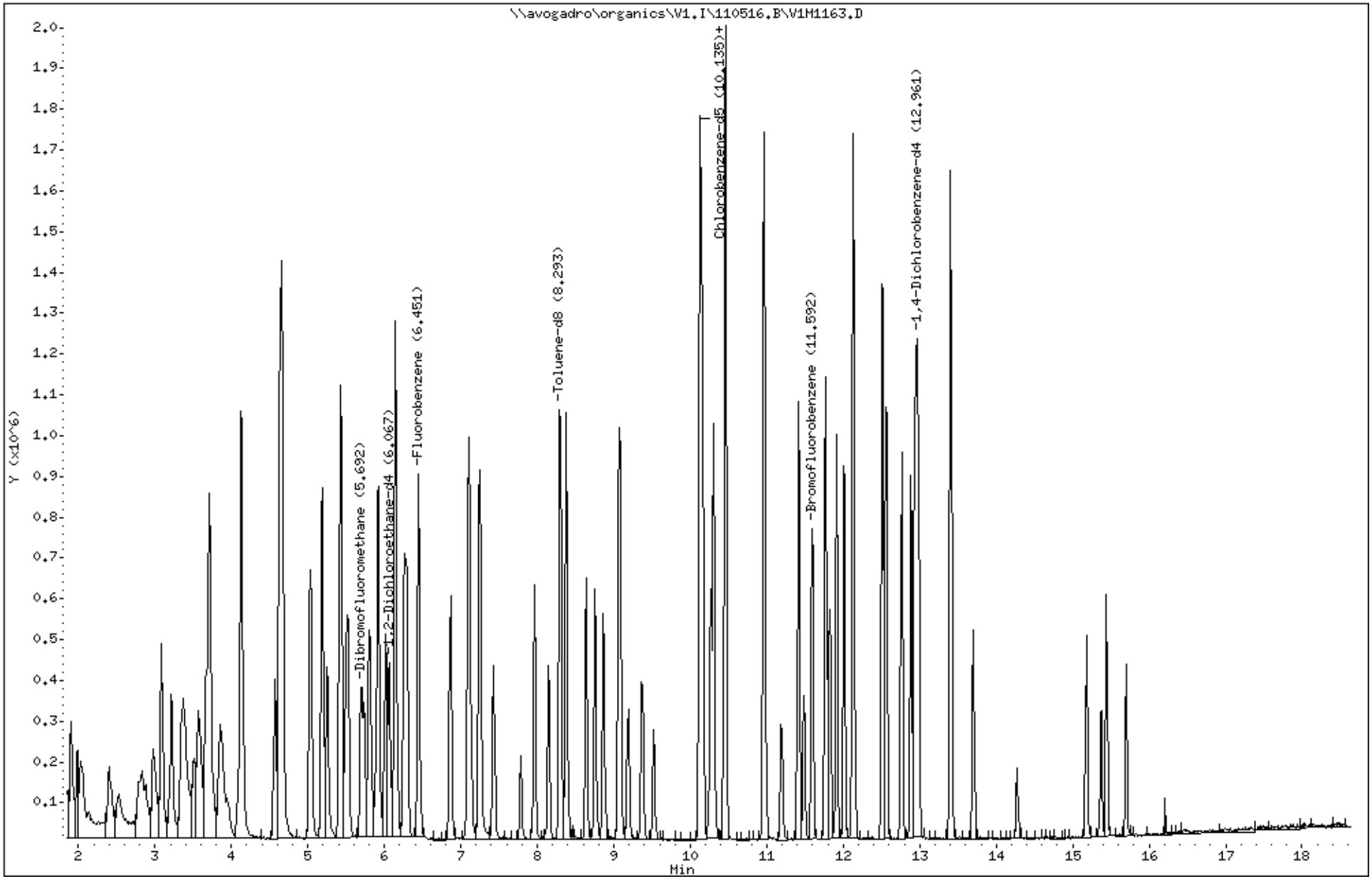
Data File: \\avogadro\organics\V1.I\110516.B\V1M1163.D
Report Date: 17-May-2011 11:35

							AMOUNTS	
		QUANT SIG					CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
	77 Isopropylbenzene	105	11.415	11.414	(1.127)	843333	50.0000	47
	78 trans-1,4-Dichloro-2-butene	75	11.483	11.483	(1.134)	92438	50.0000	49
$	79 Bromofluorobenzene	95	11.592	11.591	(1.145)	339498	50.0000	50
	80 1,1,2,2-Tetrachloroethane	83	11.759	11.759	(0.907)	282993	50.0000	50
	81 Bromobenzene	156	11.779	11.779	(0.909)	240011	50.0000	48
	82 1,2,3-Trichloropropane	75	11.818	11.818	(0.912)	350608	50.0000	54
	83 n-Propylbenzene	120	11.917	11.917	(0.919)	210724	50.0000	47
	84 2-Chlorotoluene	126	12.006	12.006	(0.926)	220012	50.0000	48
	85 1,3,5-Trimethylbenzene	105	12.124	12.123	(0.935)	655303	50.0000	47
	86 4-Chlorotoluene	126	12.134	12.134	(0.936)	236287	50.0000	48
M	94 Xylene (Total)	106				1055734	150.000	140
	87 tert-Butylbenzene	119	12.508	12.517	(0.965)	686609	50.0000	48
	88 1,2,4-Trimethylbenzene	105	12.567	12.567	(0.970)	685689	50.0000	48
	89 sec-Butylbenzene	105	12.764	12.764	(0.985)	741007	50.0000	45
	90 1,3-Dichlorobenzene	146	12.882	12.882	(0.994)	405834	50.0000	48
	91 4-Isopropyltoluene	119	12.931	12.941	(0.998)	618941	50.0000	46
*	92 1,4-Dichlorobenzene-d4	152	12.961	12.961	(1.000)	321985	50.0000	
	93 1,4-Dichlorobenzene	146	12.990	12.990	(1.002)	411785	50.0000	47
	95 n-Butylbenzene	91	13.404	13.404	(1.034)	517543	50.0000	46
	96 1,2-Dichlorobenzene	146	13.414	13.414	(1.035)	398846	50.0000	48
	97 Hexachloroethane	117	13.700	13.700	(1.057)	148889	50.0000	48
	98 1,2-Dibromo-3-chloropropane	75	14.271	14.271	(1.101)	41488	50.0000	53
	99 1,2,4-Trichlorobenzene	180	15.187	15.187	(1.172)	159783	50.0000	46
	100 Hexachlorobutadiene	225	15.374	15.374	(1.186)	57342	50.0000	43
	101 Naphthalene	128	15.443	15.443	(1.191)	490316	50.0000	53
	102 1,2,3-Trichlorobenzene	180	15.699	15.699	(1.211)	136618	50.0000	50

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\avogadro\organics\V1.I\110516.B\V1M1163.D
Date : 16-MAY-2011 10:30
Client ID: LCSD-59186
Instrument: V1.i
Sample Info: 5ML,LCSD-59186,LCSD-59186,59186
Purge Volume: 5.0
Operator: SZ SRC: LIMS
Column phase: DB-624
Column diameter: 0.25



Mitkem Laboratories
Volatiles Laboratory

Instrument V1 Injection Log

METHOD: 8260W ANALYST: [signature]
ICAL DATE: 5-5-11

BATCH: 110505.B

Start: 05-MAY-11 08:08
End: 05-MAY-11 13:25

Comments:

Standards: BFB VW110504A 2 uL
IS/S VW110505A 8 uL
SMX VW110427A ___ uL
ICV VW110427B ___ uL

Reviewed By: [signature] 5/12/11

FILE	TIME	LAB ID	CLIENT ID	PREP BATCH	MT	BN	INTERNAL STDS FBZ	INTERNAL STDS CBZ	INTERNAL STDS DCB	SURROGATES DFM	SURROGATES DCE	SURROGATES TOL	SURROGATES BFB	DILN	FLG	COMMENTS	pH
V1M1010	08:08	BFB1M	BFB1M		SL									1			
V1M1013	10:41	VSTD0051M	VSTD0051M		AQ		102	97	93					1			
V1M1014	11:27	VSTD0201M	VSTD0201M		AQ		101	102	97					1			
V1M1015	11:53	VSTD0501M	VSTD0501M		AQ		100	100	100					1			
V1M1016	12:19	VSTD1001M	VSTD1001M		AQ		101	101	102					1			
V1M1017	12:45	VSTD2001M	VSTD2001M		AQ		103	100	102					1			
V1M1018	13:25	VICV0501M	VICV0501M		AQ		108	106	97	99	98	100	96	1	E		

E - One or more target compounds are above the calibration range
R - One or more spike compounds are outside of control limits
T - Sample was injected outside of the 12 hour sequence
* - Internal Standard or Surrogate outside of control limit
D - Surrogates are diluted

[signature] 5-11-11

216

Mitkem Laboratories
Volatiles Laboratory

Instrument V1 Injection Log

METHOD: 8260W
ICAL DATE: 5-5-11

ANALYST: th

BATCH: 110516.B

Start: 16-MAY-11 09:06
End: 16-MAY-11 19:39

Comments:

Standards: BFB VW110504A 2 uL
IS/S VW110505A AMD uL
S/D VW110511A 20 uL
_____ ___ uL

Reviewed By: WL 5/17/11

FILE	TIME	LAB ID	CLIENT ID	PREP BATCH	MT	BN	INTERNAL STDS FBZ	INTERNAL STDS CBZ	INTERNAL STDS DCB	SURROGATES DFM	SURROGATES DCE	SURROGATES TOL	SURROGATES BFB	DILN	FLG	COMMENTS	pH
V1M1160	09:06	BFB1T	BFB1T		SL									1		OK	
V1M1161	09:22	VSTD0501T	VSTD0501T		AQ		100	100	100					1		OK	
V1M1162	10:04	LCS-59186	LCS-59186	59186	AQ		101	105	108	105	101	98	99	1	ER	OK	
V1M1163	10:30	LCSD-59186	LCSD-59186	59186	AQ		97	103	105	103	104	97	100	1	ER	OK	
V1M1164	10:56	MB-59186	MB-59186	59186	AQ		95	99	93	104	99	98	95	1		NOT USED	
V1M1165	11:23	MB-59186	MB-59186	59186	AQ		93	97	89	104	105	99	93	1		OK	
V1M1166	11:48	K0805-06A	TRIPBLANK	59186	AQ	2	93	94	87	102	102	102	95	1		OK	2
V1M1167	12:15	K0834-04A	TB-01	59186	AQ	1	93	94	84	104	107	99	96	1		OK	
V1M1168	12:41	K0834-01A	SL-MW-12	59186	AQ	1	90	91	88	102	105	98	99	1		OK	
V1M1169	13:08	K0834-02A	SL-MW-62	59186	AQ	1	89	93	86	105	105	97	96	1		OK	
V1M1170	13:34	K0834-03A	SL-MW-13	59186	AQ	1	93	92	85	102	102	101	95	1		OK	
V1M1171	14:00	K0834-05A	SL-MW-14	59186	AQ	1	88	92	81	104	102	98	94	1		OK	
V1M1172	14:26	K0834-06A	SL-MW-23S	59186	AQ	1	89	94	83	107	101	98	93	1	E	RE=1520 RM@16X	
V1M1173	14:52	K0834-07A	SL-MW-23D	59186	AQ	1	90	88	80	102	100	101	98	1		RR@1X	
V1M1174	15:19	K0834-08A	SL-MW-16	59186	AQ	1	88	90	82	104	104	98	96	1		OK	
V1M1175	15:45	K0834-09A	SL-MW-2	59186	AQ	1	90	91	81	107	100	99	94	1		OK	
V1M1176	16:11	K0834-10A	SL-MW-3A	59186	AQ	1	87	90	80	103	99	97	97	1		OK	
V1M1177	16:37	K0834-11A	SL-MW-3B	59186	AQ	1	87	90	82	106	103	99	92	1		OK	
V1M1178	17:03	K0834-12A	SL-MW-4	59186	AQ	1	87	88	79	104	101	102	95	1		OK	
V1M1179	17:29	K0834-13A	SL-MW-6A	59186	AQ	1	86	89	80	109	101	97	96	1		OK	
V1M1180	17:55	K0834-14A	SL-MW-6B	59186	AQ	1	86	87	81	103	102	100	96	1		OK	
V1M1181	18:21	K0834-15A	SL-MW-5	59186	AQ	1	89	88	80	104	102	99	95	1		OK	
V1M1182	18:48	K0805-03AMS	MW-16RMS	59186	AQ	4	90	93	99	103	101	98	102	1		OK	
V1M1183	19:13	K0805-03AMSD	MW-16RMSD	59186	AQ	5	87	92	97	105	102	97	98	1		OK	2
V1M1184	19:39	VBLK	VBLK		AQ		85	87	82	107	108	100	95	1	E	NOT USED	

E - One or more target compounds are above the calibration range
R - One or more spike compounds are outside of control limits
T - Sample was injected outside of the 12 hour sequence
* - Internal Standard or Surrogate outside of control limit
D - Surrogates are diluted

th 5-17-11

220

Logbook ID 90.0204-11/10

Mitkem Laboratories
Volatiles Laboratory

Instrument V1 Injection Log

METHOD: 8260W ANALYST: [illegible]

ICAL DATE: 5-5-11

BATCH: 110517.B

Start: 17-MAY-11 07:31
End: 17-MAY-11 19:17

Comments:

Standards: BFB VM110504A 2 uL
IS/S VM110713A 100 uL
S/D VM110511A 20 uL
_____ ____ uL

Reviewed By: [illegible] 5/18/11

FILE	TIME	LAB ID	CLIENT ID	PREP BATCH	MT	BN	INTERNAL STDS FBZ	INTERNAL STDS CBZ	INTERNAL STDS DCB	SURROGATES DFM	SURROGATES DCE	SURROGATES TOL	SURROGATES BFB	DILN	FLG	COMMENTS	pH
V1M1190	07:31	BFB1U	BFB1U		SL									1			
V1M1191	07:47	VSTD0501U	VSTD0501U		AQ		100	100	100					1		INT USED	
V1M1192	08:26	VSTD0501U	VSTD0501U		AQ		100	100	100					1			
V1M1193	09:11	LCS-59208	LCS-59208	59208	AQ		97	95	98	104	103	100	104	1	ER		
V1M1194	09:48	MB-59208	MB-59208	59208	AQ		94	93	84	104	98	99	92	1	E	INT USED	
V1M1195	10:14	MB-59208	MB-59208	59208	AQ		92	88	81	102	98	99	96	1			
V1M1196	10:51	K0834-07A	SL-MW-23D	59208	AQ	2	90	87	75	105	104	99	93	1			2
V1M1197	11:17	K0834-06ADL	SL-MW-23SDL	59208	AQ	2	88	87	77	100	108	98	95	16		PCE=93	
V1M1198	11:51	K0779-29A	TRIP BLANK	59208	AQ	1	89	88	79	108	99	99	95	1			
V1M1199	12:18	K0779-25A	MW11-2	59208	AQ	1	89	88	81	105	100	99	96	1			
V1M1200	12:44	K0779-26A	WE87-ML3B	59208	AQ	1	91	88	81	105	101	99	96	1			
V1M1201	13:10	K0779-27A	WE87-ML3D	59208	AQ	1	85	86	76	107	102	98	92	1			
V1M1202	13:36	K0779-28A	WE87-ML3E	59208	AQ	1	87	85	73	99	96	98	95	1			
V1M1203	14:02	K0834-12AMS	SL-MW-4MS	59208	AQ	2	89	90	90	106	106	95	100	1			
V1M1204	14:29	K0834-12AMSD	SL-MW-4MSD	59208	AQ	3	90	91	91	107	107	95	98	1			
V1M1205	14:55	K0779-27AMS	WE87-ML3DMS	59208	AQ	2	88	90	90	106	107	97	101	1	ER		2
V1M1206	15:21	K0779-27AMSD	WE87-ML3DMSD	59208	AQ	3	89	89	93	101	100	97	102	1	ER		
V1M1207	15:48	VBLK	VBLK		AQ		87	87	79	106	105	97	94	1	E	INT USED	
V1M1208	16:13	K0753-02A	R4050311	59208	AQ		85	83	74	102	102	102	96	1			
V1M1209	16:40	K0753-02B	R9050311	59208	AQ		84	85	77	106	108	98	94	1			
V1M1210	17:06	K0753-02C	R10050311	59208	AQ		84	82	74	107	108	99	95	1			
V1M1211	17:32	K0753-02D	R13050311	59208	AQ		85	84	73	107	109	99	96	1			
V1M1212	17:58	K0753-03A	R4050311	59208	AQ		83	82	72	103	102	98	86	1			
V1M1213	18:25	K0753-03B	R9050311	59208	AQ		85	82	75	104	105	100	96	1			
V1M1214	18:51	K0753-03C	R10050311	59208	AQ		82	83	71	107	103	98	96	1			
V1M1215	19:17	K0753-03D	R13050311	59208	AQ		83	83	76	108	102	100	96	1			

E - One or more target compounds are above the calibration range
R - One or more spike compounds are outside of control limits
T - Sample was injected outside of the 12 hour sequence
* - Internal Standard or Surrogate outside of control limit
D - Surrogates are diluted

5/18/11

221

MITKEM LABORATORIES: VOLATILE SAMPLES RECEIVING LOGBOOK

VOA Log-In Date	Workorder	Client ID	Sample Numbers	Relinquished by:	Received by:	Pres. Used	F/R	Returned to R1
5/16/11	K0834	AECOM	01-~~05~~ 15 STM	VEB		H	R10	
5-17-11	K0779	RIRRC	25-29	DRM		H	R9	
	K0842	CRS	01-02	DRM		US	R9	
	~~K0791~~	~~CRS~~	~~11~~	~~DRM~~		~~US~~		NA STM
	K0845	D&B	01-08	DRM		UA	R9	
	K0845	D&B	01-08	DRM		H	R9	
	K0851	RIRRC	01-02	DRM		H	R9	
STM	K0852	RIRRC	01-02	DRM		H	R9	

Logbook ID 90.0191-12/10

Reviewed By: Cmm 5/27/11

"Preservative Used" Key

UA = Unpreserved Aqueous	**H** = HCL	**A** = Air	**M** = MeOH	**E** = Encore
US = Unpreserved Soil	**N** = $NaHSO_4$		**F** = Freeze	**T** = Trace, HCL



* Metals *

REPORT NARRATIVE

Mitkem Laboratories, a Division of Spectrum Analytical, Inc.

Client : AECOM Environment

Project: Multi Site G, ServAll

Laboratory Workorder / SDG #: K0834

SW846 6010C, SW846 7470A

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

The metals analysis results are reported in two sub-SDGs, SK0834 and SK0834-D. The total metals analysis results are reported in SDG S SK0834 and the dissolved metals analysis results are reported in SDG SK0834-D. The raw data for both sub-SDGs may be found following Form 14 of SDG SK0834-D.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 6010C, SW846 7470A

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3005A
Aqueous Samples were prepared following procedures in laboratory test code: SW7470A

V. INSTRUMENTATION

The following instrumentation was used to perform

Instrument Code: FIMS1
Instrument Type: CVAA
Description: FIMS
Manufacturer: Perkin-Elmer
Model: FIMS

Instrument Code: OPTIMA3
Instrument Type: ICP
Description: Optima ICP-OES
Manufacturer: Perkin-Elmer
Model: 4300 DV

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for laboratory control samples were within the QC limits.

2. Matrix spike (MS):

Matrix spike was performed on sample: SL-MW-4 (K0834-12BMS).

Percent recoveries were within the QC limits with the following

exceptions:

SL-MW-4 (K0834-12BMS), Spike sample recovery is above criteria for Mercury at 127% with criteria of (75-125).

D. Post Digestion Spike (PDS):

A post-digestion spike was not performed on any sample in this SDG.

E. Duplicate sample:

Duplicate analysis was performed on sample: SL-MW-4 (K0834-12BDUP).

Relative percent differences were within the QC limits.

F. Serial Dilution (SD):

Serial Dilution analysis was performed on sample: SL-MW-4 (K0834-12BSD).

Percent differences were within the QC limits with the exception of the following:

SL-MW-4 (K0834-12BSD), Serial Dilution analysis not within control limit for Nickel.

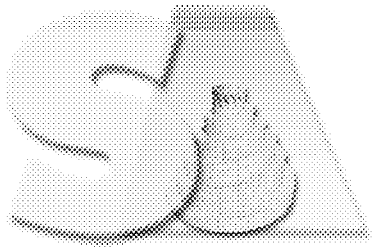
G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Mitkem, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: 

Date: 06/08/11



Data Flag/Qualifiers:

U Not Detected. This compound was analyzed-for but not detected. For most analyses the reporting limit (lowest standard concentration) is the value listed. For Department of Defense programs, this is the Limit of Detection (LOD).

J This flag indicates an estimated value due to either
- the compound was detected below the reporting limit, or
- estimated concentration for Tentatively Identified Compound

B This flag indicates the compound was also detected in the associated Method Blank. The B flag has an alternative meaning for Inorganics analyses reported using CLP ILM-type metals forms, indicating a "trace" concentration below the reporting limit and equal to or above the detection limit.

D For Organics analysis, this flag indicates the compound concentration was obtained from a secondary dilution analysis

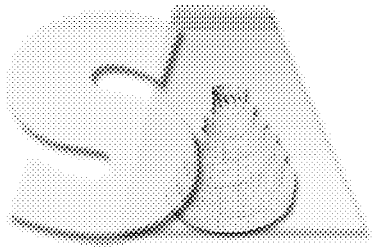
E This flag indicates the compound concentration exceeded the Calibration Range. The E flag has an alternative meaning for Inorganics analyses reported using CLP metals forms, indicating an estimated concentration due to the presence of interferences, as determined by the serial dilution analysis.

P This flag is used for pesticides/PCB/herbicide compound when there is a greater than 40% difference for detected concentration between the two GC columns used for primary and confirmation analyses. This difference typically indicates an interference, causing one value to be unusually high. The **lower** of the two values is generally reported on the Form 1, and both values reported on the Form 10.

A Used to flag semivolatile organic Tentatively Identified Compound library search results for compounds identified as aldol condensation byproducts.

N Used to flag results for volatile and semivolatile Organics analysis Tentatively Identified Compounds where an analyte has passed the identification criteria, and is considered to be positively identified. For Inorganics analysis the N flag indicates the matrix spike recovery falls outside of the control limit.

* For Inorganics analysis the * flag indicates Relative Percent Difference for duplicate analyses is outside of the control limit.



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Sample ID Suffixes

DL Diluted analysis. The sample was diluted and reanalyzed. The DL may be followed by a digit if more than one diluted reanalysis is provided. The DL suffix is not attached to an analysis initially performed at dilution, only to reanalyses performed at dilution

RE Reanalysis. Appended to the client sample ID to indicate a reextraction and reanalysis or a reanalysis of the original sample extract.

RA Reanalysis. Appended to the laboratory sample ID indicates a reanalysis of the original sample extract.

RX Reextraction. Appended to the laboratory sample ID indicates a reextraction of the sample.

MS Matrix Spike.

MSD Matrix Spike Duplicate

DUP Duplicate analysis

SD Serial Dilution

PS Post-digestion or Post-distillation spike. For metals or inorganic analyses

U.S.EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834

SOW No.: SW846

EPA Sample No.	Lab Sample ID
SL-MW-12	K0834-01
SL-MW-13	K0834-03
SL-MW-14	K0834-05
SL-MW-16	K0834-08
SL-MW-2	K0834-09
SL-MW-23D	K0834-07
SL-MW-23S	K0834-06
SL-MW-3A	K0834-10
SL-MW-3B	K0834-11
SL-MW-4	K0834-12
SL-MW-4D	K0834-12DUP
SL-MW-4S	K0834-12MS
SL-MW-5	K0834-15
SL-MW-62	K0834-02
SL-MW-6A	K0834-13
SL-MW-6B	K0834-14

Were ICP interelement corrections applied?	Yes/No	Yes
Were background corrections applied?	Yes/No	Yes
If yes-were raw data generated before application of background corrections?	Yes/No	No

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature

Signature: Name: Huiyan Zhao

Date: 06/07/11 Title:

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

SL-MW-12

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834

Matrix (soil/water): WATER Lab Sample ID: K0834-01

Level (low/med): MED Date Received: 05/13/2011

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	697			P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	77.3	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	1.6	B		P
7440-70-2	Calcium	14900			P
7440-47-3	Chromium	1070			P
7440-48-4	Cobalt	1.6	B		P
7440-50-8	Copper	19.4	B		P
7439-89-6	Iron	6020			P
7439-92-1	Lead	5.7	B		P
7439-95-4	Magnesium	2590			P
7439-96-5	Manganese	375			P
7439-97-6	Mercury	0.066	B	N	CV
7440-02-0	Nickel	31.1	B	E	P
7440-09-7	Potassium	3150			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	41800			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	2.7	B		P
7440-66-6	Zinc	40.0	B		P

Comments:

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

SL-MW-13

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834

Matrix (soil/water): WATER Lab Sample ID: K0834-03

Level (low/med): MED Date Received: 05/13/2011

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	558			P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	48.8	B		P
7440-41-7	Beryllium	0.30	B		P
7440-43-9	Cadmium	96.4			P
7440-70-2	Calcium	8570			P
7440-47-3	Chromium	819			P
7440-48-4	Cobalt	6.1	B		P
7440-50-8	Copper	38.7			P
7439-89-6	Iron	4840			P
7439-92-1	Lead	5.1	B		P
7439-95-4	Magnesium	2130			P
7439-96-5	Manganese	294			P
7439-97-6	Mercury	0.11	B	N	CV
7440-02-0	Nickel	345		E	P
7440-09-7	Potassium	3480			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	36000			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	9.4	B		P
7440-66-6	Zinc	98.2			P

Comments:

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

SL-MW-14

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834

Matrix (soil/water): WATER Lab Sample ID: K0834-05

Level (low/med): MED Date Received: 05/13/2011

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1250			P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	36.5	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	2.2	B		P
7440-70-2	Calcium	8210			P
7440-47-3	Chromium	153			P
7440-48-4	Cobalt	3.6	B		P
7440-50-8	Copper	9.0	B		P
7439-89-6	Iron	1730			P
7439-92-1	Lead	4.8	B		P
7439-95-4	Magnesium	2330			P
7439-96-5	Manganese	101			P
7439-97-6	Mercury	0.028	U	N	CV
7440-02-0	Nickel	28.3	B	E	P
7440-09-7	Potassium	1550			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	82800			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	3.2	B		P
7440-66-6	Zinc	36.2	B		P

Comments:

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

SL-MW-16

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834

Matrix (soil/water): WATER Lab Sample ID: K0834-08

Level (low/med): MED Date Received: 05/13/2011

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	819			P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	15.1	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	17300			P
7440-47-3	Chromium	320			P
7440-48-4	Cobalt	1.9	B		P
7440-50-8	Copper	45.6			P
7439-89-6	Iron	2670			P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	8150			P
7439-96-5	Manganese	47.3	B		P
7439-97-6	Mercury	0.028	U	N	CV
7440-02-0	Nickel	73.4		E	P
7440-09-7	Potassium	1980			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	91300			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	4.0	B		P
7440-66-6	Zinc	34.0	B		P

Comments:

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

SL-MW-2

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834

Matrix (soil/water): WATER Lab Sample ID: K0834-09

Level (low/med): MED Date Received: 05/13/2011

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	937			P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	37.1	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	17.3			P
7440-70-2	Calcium	18900			P
7440-47-3	Chromium	434			P
7440-48-4	Cobalt	3.4	B		P
7440-50-8	Copper	28.3	B		P
7439-89-6	Iron	2790			P
7439-92-1	Lead	7.4	B		P
7439-95-4	Magnesium	3180			P
7439-96-5	Manganese	465			P
7439-97-6	Mercury	0.029	B	N	CV
7440-02-0	Nickel	70.1		E	P
7440-09-7	Potassium	2380			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	29900			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	5.6	B		P
7440-66-6	Zinc	84.3			P

Comments:

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

SL-MW-23D

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834

Matrix (soil/water): WATER Lab Sample ID: K0834-07

Level (low/med): MED Date Received: 05/13/2011

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	353			P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	27.2	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	18800			P
7440-47-3	Chromium	1.8	B		P
7440-48-4	Cobalt	0.73	B		P
7440-50-8	Copper	12.9	B		P
7439-89-6	Iron	637			P
7439-92-1	Lead	4.6	B		P
7439-95-4	Magnesium	4080			P
7439-96-5	Manganese	1470			P
7439-97-6	Mercury	0.028	U	N	CV
7440-02-0	Nickel	1.4	B	E	P
7440-09-7	Potassium	2840			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	16400			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	41.5	B		P

Comments:

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

SL-MW-23S

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834

Matrix (soil/water): WATER Lab Sample ID: K0834-06

Level (low/med): MED Date Received: 05/13/2011

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	354			P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	14.6	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	2.0	B		P
7440-70-2	Calcium	14700			P
7440-47-3	Chromium	2.1	B		P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	6.1	B		P
7439-89-6	Iron	462			P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	5900			P
7439-96-5	Manganese	1490			P
7439-97-6	Mercury	0.028	U	N	CV
7440-02-0	Nickel	14.4	B	E	P
7440-09-7	Potassium	1310			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	29900			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	49.5	B		P

Comments:

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

SL-MW-3A

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834

Matrix (soil/water): WATER Lab Sample ID: K0834-10

Level (low/med): MED Date Received: 05/13/2011

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10800			P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	6.7	B		P
7440-39-3	Barium	101	B		P
7440-41-7	Beryllium	0.35	B		P
7440-43-9	Cadmium	3.3	B		P
7440-70-2	Calcium	30200			P
7440-47-3	Chromium	166			P
7440-48-4	Cobalt	10.9	B		P
7440-50-8	Copper	139			P
7439-89-6	Iron	14100			P
7439-92-1	Lead	84.0			P
7439-95-4	Magnesium	4230			P
7439-96-5	Manganese	1040			P
7439-97-6	Mercury	0.15	B	N	CV
7440-02-0	Nickel	60.0		E	P
7440-09-7	Potassium	4000			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	60000			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	27.9	B		P
7440-66-6	Zinc	865			P

Comments:

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

SL-MW-3B

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834

Matrix (soil/water): WATER Lab Sample ID: K0834-11

Level (low/med): MED Date Received: 05/13/2011

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3950			P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	32.7	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	12900			P
7440-47-3	Chromium	595			P
7440-48-4	Cobalt	6.5	B		P
7440-50-8	Copper	50.5			P
7439-89-6	Iron	6160			P
7439-92-1	Lead	29.8			P
7439-95-4	Magnesium	1700			P
7439-96-5	Manganese	121			P
7439-97-6	Mercury	0.058	B	N	CV
7440-02-0	Nickel	110		E	P
7440-09-7	Potassium	1910			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	8260			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	13.2	B		P
7440-66-6	Zinc	245			P

Comments:

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

SL-MW-4

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834

Matrix (soil/water): WATER Lab Sample ID: K0834-12

Level (low/med): MED Date Received: 05/13/2011

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11200			P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	45.2	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	1.3	B		P
7440-70-2	Calcium	20400			P
7440-47-3	Chromium	552			P
7440-48-4	Cobalt	7.4	B		P
7440-50-8	Copper	124			P
7439-89-6	Iron	5060			P
7439-92-1	Lead	20.4			P
7439-95-4	Magnesium	4010			P
7439-96-5	Manganese	1540			P
7439-97-6	Mercury	0.062	B	N	CV
7440-02-0	Nickel	147		E	P
7440-09-7	Potassium	3320			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	133000			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	8.0	B		P
7440-66-6	Zinc	154			P

Comments:

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

SL-MW-5

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834

Matrix (soil/water): WATER Lab Sample ID: K0834-15

Level (low/med): MED Date Received: 05/13/2011

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6060			P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	20.4			P
7440-39-3	Barium	51.0	B		P
7440-41-7	Beryllium	0.44	B		P
7440-43-9	Cadmium	1.4	B		P
7440-70-2	Calcium	9790			P
7440-47-3	Chromium	437			P
7440-48-4	Cobalt	43.8	B		P
7440-50-8	Copper	146			P
7439-89-6	Iron	37600			P
7439-92-1	Lead	12.8			P
7439-95-4	Magnesium	2100			P
7439-96-5	Manganese	1290			P
7439-97-6	Mercury	0.39		N	CV
7440-02-0	Nickel	59.9		E	P
7440-09-7	Potassium	7470			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	31800			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	9.6	B		P
7440-66-6	Zinc	152			P

Comments:

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

SL-MW-62

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834

Matrix (soil/water): WATER Lab Sample ID: K0834-02

Level (low/med): MED Date Received: 05/13/2011

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1810			P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	77.2	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	2.2	B		P
7440-70-2	Calcium	14700			P
7440-47-3	Chromium	1650			P
7440-48-4	Cobalt	2.4	B		P
7440-50-8	Copper	29.4	B		P
7439-89-6	Iron	8430			P
7439-92-1	Lead	7.8	B		P
7439-95-4	Magnesium	2580			P
7439-96-5	Manganese	371			P
7439-97-6	Mercury	0.068	B	N	CV
7440-02-0	Nickel	55.3		E	P
7440-09-7	Potassium	3340			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	41600			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	5.6	B		P
7440-66-6	Zinc	48.6	B		P

Comments:

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

SL-MW-6A

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834

Matrix (soil/water): WATER Lab Sample ID: K0834-13

Level (low/med): MED Date Received: 05/13/2011

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14700			P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	6.3	B		P
7440-39-3	Barium	57.8	B		P
7440-41-7	Beryllium	0.45	B		P
7440-43-9	Cadmium	2.7	B		P
7440-70-2	Calcium	8280			P
7440-47-3	Chromium	775			P
7440-48-4	Cobalt	12.0	B		P
7440-50-8	Copper	155			P
7439-89-6	Iron	28500			P
7439-92-1	Lead	78.9			P
7439-95-4	Magnesium	3020			P
7439-96-5	Manganese	381			P
7439-97-6	Mercury	0.51		N	CV
7440-02-0	Nickel	237		E	P
7440-09-7	Potassium	3410			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	63400			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	32.2	B		P
7440-66-6	Zinc	315			P

Comments:

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

SL-MW-6B

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834

Matrix (soil/water): WATER Lab Sample ID: K0834-14

Level (low/med): MED Date Received: 05/13/2011

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	80900			P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	40.6			P
7440-39-3	Barium	308			P
7440-41-7	Beryllium	5.7			P
7440-43-9	Cadmium	5.2			P
7440-70-2	Calcium	29800			P
7440-47-3	Chromium	1520			P
7440-48-4	Cobalt	62.5			P
7440-50-8	Copper	500			P
7439-89-6	Iron	146000			P
7439-92-1	Lead	316			P
7439-95-4	Magnesium	12800			P
7439-96-5	Manganese	1500			P
7439-97-6	Mercury	1.3		N	CV
7440-02-0	Nickel	186		E	P
7440-09-7	Potassium	6530			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	18200			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	169			P
7440-66-6	Zinc	1310			P

Comments:

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Mercury	5.0	5.19	103.7	5.0	5.26	105.2	5.26	105.1	CV

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Mercury				5.0	5.20	104.0	5.21	104.2	CV

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Mercury				5.0	5.15	103.0	5.04	100.7	CV

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum	10000.0	9979.69	99.8	10000.0	9953.71	99.5	10089.70	100.9	P
Antimony	500.0	483.54	96.7	500.0	474.55	94.9	490.93	98.2	P
Arsenic	500.0	480.31	96.1	500.0	478.57	95.7	496.47	99.3	P
Barium	10000.0	10123.89	101.2	10000.0	10139.85	101.4	10316.55	103.2	P
Beryllium	250.0	247.20	98.9	250.0	244.86	97.9	252.57	101.0	P
Cadmium	250.0	248.89	99.6	250.0	246.79	98.7	251.32	100.5	P
Calcium	25000.0	25209.07	100.8	25000.0	25145.64	100.6	25705.23	102.8	P
Chromium	1000.0	1029.13	102.9	1000.0	1038.66	103.9	1048.57	104.9	P
Cobalt	2500.0	2593.48	103.7	2500.0	2538.23	101.5	2610.53	104.4	P
Copper	1250.0	1221.08	97.7	1250.0	1214.43	97.2	1234.78	98.8	P
Iron	5000.0	5132.48	102.6	5000.0	5125.83	102.5	5205.82	104.1	P
Lead	500.0	498.40	99.7	500.0	495.51	99.1	511.26	102.3	P
Magnesium	25000.0	24977.26	99.9	25000.0	24718.13	98.9	25486.65	101.9	P
Manganese	2500.0	2498.67	99.9	2500.0	2479.64	99.2	2536.52	101.5	P
Nickel	2500.0	2563.76	102.6	2500.0	2607.18	104.3	2621.20	104.8	P
Potassium	25000.0	25622.96	102.5	25000.0	25956.62	103.8	26512.94	106.1	P
Selenium	500.0	492.28	98.5	500.0	491.78	98.4	501.61	100.3	P
Silver	1250.0	1229.98	98.4	1250.0	1238.42	99.1	1244.77	99.6	P
Sodium	25000.0	25753.22	103.0	25000.0	25995.10	104.0	26471.01	105.9	P
Thallium	500.0	501.47	100.3	500.0	501.36	100.3	514.40	102.9	P
Vanadium	2500.0	2479.92	99.2	2500.0	2512.92	100.5	2528.13	101.1	P
Zinc	2500.0	2550.36	102.0	2500.0	2514.38	100.6	2583.84	103.4	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum				10000.0	10291.53	102.9			P
Antimony				500.0	489.08	97.8			P
Arsenic				500.0	493.83	98.8			P
Barium				10000.0	10370.89	103.7			P
Beryllium				250.0	252.41	101.0			P
Cadmium				250.0	253.90	101.6			P
Calcium				25000.0	26068.00	104.3			P
Chromium				1000.0	1056.95	105.7			P
Cobalt				2500.0	2634.22	105.4			P
Copper				1250.0	1274.17	101.9			P
Iron				5000.0	5272.74	105.5			P
Lead				500.0	512.51	102.5			P
Magnesium				25000.0	25715.48	102.9			P
Manganese				2500.0	2552.75	102.1			P
Nickel				2500.0	2643.51	105.7			P
Potassium				25000.0	26783.25	107.1			P
Selenium				500.0	501.18	100.2			P
Silver				1250.0	1271.34	101.7			P
Sodium				25000.0	26658.10	106.6			P
Thallium				500.0	517.59	103.5			P
Vanadium				2500.0	2582.77	103.3			P
Zinc				2500.0	2598.83	104.0			P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

3

BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834

Preparation Blank Matrix (soil/water): WATER

Method Blank ID: **MB-59463**

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

FIMS1_110531B

	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
Analyte		C	1	C	2	C	3	C		C	M
Mercury	0.028	U	0.028	U	0.028	U	0.028	U	0.028	U	CV

U.S. EPA - CLP

3

BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834

Preparation Blank Matrix (soil/water): Method Blank ID:

Preparation Blank Concentration Units (ug/L or mg/kg):

FIMS1_110531B

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Mercury			0.028	U	0.028	U	0.028	U			CV

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3

BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834

Preparation Blank Matrix (soil/water): WATER

Method Blank ID: **MB-59228**

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

OPTIMA3_110518A

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum	66.0	U	66.0	U	66.0	U	66.0	U	66.000	U	P
Antimony	9.3	U	9.3	U	9.3	U	9.3	U	9.300	U	P
Arsenic	4.3	U	4.3	U	4.3	U	4.3	U	4.300	U	P
Barium	2.8	B	1.7	B	1.1	U	1.2	B	1.100	U	P
Beryllium	0.3	U	0.3	U	0.3	U	0.3	U	0.260	U	P
Cadmium	0.9	U	0.9	U	0.9	U	0.9	U	0.890	U	P
Calcium	110.0	U	110.0	U	110.0	U	110.0	U	110.000	U	P
Chromium	0.6	U	0.6	U	0.6	U	0.6	U	0.640	U	P
Cobalt	1.0	B	0.7	B	0.7	U	0.7	U	0.670	U	P
Copper	3.6	U	3.6	U	3.6	U	3.6	U	3.600	U	P
Iron	31.0	U	31.0	U	31.0	U	31.0	U	31.000	U	P
Lead	4.2	U	4.2	U	4.2	U	4.2	U	4.200	U	P
Magnesium	76.0	U	76.0	U	76.0	U	76.0	U	76.000	U	P
Manganese	10.0	U	10.0	U	10.0	U	10.0	U	10.000	U	P
Nickel	0.9	U	0.8	U	0.8	U	0.8	U	0.850	U	P
Potassium	76.0	U	76.0	U	76.0	U	76.0	U	76.000	U	P
Selenium	12.0	U	12.0	U	12.0	U	12.0	U	12.000	U	P
Silver	6.9	U	6.9	U	6.9	U	6.9	U	6.900	U	P
Sodium	31.7	B	46.2	B	45.4	B	50.7	B	29.000	U	P
Thallium	6.2	U	6.2	U	6.2	U	6.2	U	6.200	U	P
Vanadium	1.1	U	1.1	U	1.1	U	1.1	U	1.100	U	P
Zinc	4.9	U	4.9	U	4.9	U	4.9	U	8.966	B	P

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4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834

ICP ID Number: OPTIMA3 ICS Source:

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found %R	Final Found Sol. AB	Final Found %R
Aluminum	500000	500000	508166	523118.6	104.6				
Antimony	0	600	1	591.4	98.6				
Arsenic	0	100	-5	103.8	103.8				
Barium	0	500	1	520.8	104.2				
Beryllium	0	500	0	503.4	100.7				
Cadmium	0	1000	2	969.6	97.0				
Calcium	500000	500000	525435	533814.7	106.8				
Chromium	0	500	1	505.2	101.0				
Cobalt	0	500	-2	487.5	97.5				
Copper	0	500	-2	542.9	108.6				
Iron	200000	200000	192706	196146.1	98.1				
Lead	0	500	-3	479.6	95.9				
Magnesium	500000	500000	493581	502801.6	100.6				
Manganese	0	500	-18	486	97.2				
Nickel	0	1000	-3	963.3	96.3				
Potassium	0	25000	76	27744.1	111.0				
Selenium	0	500	-2	489.8	98.0				
Silver	0	200	0	218.6	109.3				
Sodium	0	25000	79	26922.5	107.7				
Thallium	0	100	-3	91.7	91.7				
Vanadium	0	500	2	510	102.0				
Zinc	0	1000	3	964.3	96.4				

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5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SL-MW-4S

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834

Matrix (soil/water): WATER Level (low/med): MED

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	20500		11200		9100	103		P
Antimony	75-125	430		9.3	U	456	94		P
Arsenic	75-125	458		4.3	U	456	101		P
Barium	75-125	9010		45.2	B	9100	99		P
Beryllium	75-125	220		0.26	U	227	97		P
Cadmium	75-125	225		1.3	B	227	98		P
Chromium	75-125	1430		552		910	96		P
Cobalt	75-125	2250		7.4	B	2270	99		P
Copper	75-125	1210		124		1130	97		P
Iron	75-125	10000		5060		4550	109		P
Lead	75-125	470		20.4		455	99		P
Manganese	75-125	3740		1540		2270	97		P
Nickel	75-125	2380		147		2270	99		P
Selenium	75-125	441		12.0	U	455	97		P
Silver	75-125	1090		6.9	U	1130	97		P
Thallium	75-125	449		6.2	U	455	99		P
Vanadium	75-125	2170		8.0	B	2270	95		P
Zinc	75-125	2370		154		2270	98		P
Mercury	75-125	5.8		0.062	B	4.6	127	N	CV

Comments:

U.S. EPA - CLP

6

DUPLICATES

EPA SAMPLE NO.

SL-MW-4D

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834

Matrix (soil/water): WATER Level (low/med): MED

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		11150.8877		11555.2534		3.6		P
Antimony		9.3000	U	9.3000	U			P
Arsenic		4.3000	U	4.3000	U			P
Barium		45.1789	B	46.9656	B	3.9		P
Beryllium		0.2600	U	0.2600	U			P
Cadmium		1.2630	B	1.3541	B	7		P
Calcium		20408.8026		21153.9201		3.6		P
Chromium		552.2255		563.8569		2.1		P
Cobalt		7.3524	B	7.6265	B	3.7		P
Copper	30.0	123.6243		139.8149		12.3		P
Iron		5056.8263		5193.5217		2.7		P
Lead	10.0	20.3509		21.9961		7.8		P
Magnesium		4009.0656		4131.8418		3		P
Manganese		1536.9130		1602.2391		4.2		P
Nickel	50.0	146.6023		148.7468		1.5		P
Potassium	1000.0	3318.3524		3385.1809		2		P
Selenium		12.0000	U	12.0000	U			P
Silver		6.9000	U	6.9000	U			P
Sodium		132594.7436		135592.1807		2.2		P
Thallium		6.2000	U	6.2000	U			P
Vanadium		7.9748	B	8.0720	B	1.2		P
Zinc	50.0	153.5710		160.1827		4.2		P
Mercury		0.0623	B	0.0684	B	9.3		CV

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7

LABORATORY CONTROL SAMPLE

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834

Solid LCS Source: LCS(D) ID:

Aqueous LCS Source: **LCS-59228**

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/Kg) True	Found	C	Limits		%R
Aluminum	9100.0	8944.25	98.3						
Antimony	455.0	439.28	96.5						
Arsenic	455.0	461.67	101.5						
Barium	9100.0	9145.05	100.5						
Beryllium	227.0	223.17	98.3						
Cadmium	227.0	226.65	99.8						
Calcium	22700.0	22370.35	98.5						
Chromium	910.0	903.82	99.3						
Cobalt	2270.0	2269.40	100.0						
Copper	1130.0	1080.22	95.6						
Iron	4550.0	4603.63	101.2						
Lead	455.0	463.40	101.8						
Magnesium	22700.0	22091.26	97.3						
Manganese	2270.0	2246.13	98.9						
Nickel	2270.0	2316.55	102.1						
Potassium	22700.0	22752.35	100.2						
Selenium	455.0	456.60	100.4						
Silver	1130.0	1113.54	98.5						
Sodium	22700.0	22915.33	100.9						
Thallium	455.0	465.16	102.2						
Vanadium	2270.0	2211.83	97.4						
Zinc	2270.0	2238.99	98.6						

LABORATORY CONTROL SAMPLE

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834

Solid LCS Source:

Aqueous LCS Source:

LCS(D) ID:
LCS-59463

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/Kg) True	Found	C	Limits		%R
Mercury	4.6	4.94	107.4						

9

ICP SERIAL DILUTIONS

EPA SAMPLE NO.

SL-MW-4

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834

Matrix (soil/water): WATER Level (low/med): MED

Concentration Units (ug/L or mg/kg dry weight): ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	11150.89		11855.52		6		P
Antimony	9.30	U	46.50	U			P
Arsenic	4.30	U	21.50	U			P
Barium	45.18	B	53.50	B	18		P
Beryllium	0.26	U	1.30	U			P
Cadmium	1.26	B	4.45	U	100		P
Calcium	20408.80		21714.69		6		P
Chromium	552.23		587.52		6		P
Cobalt	7.35	B	9.42	B	28		P
Copper	123.62		129.59		5		P
Iron	5056.83		5461.47		8		P
Lead	20.35		26.20		29		P
Magnesium	4009.07		4397.48		10		P
Manganese	1536.91		1659.13		8		P
Nickel	146.60		161.52		10	E	P
Potassium	3318.35		3660.29		10		P
Selenium	12.00	U	60.00	U			P
Silver	6.90	U	34.50	U			P
Sodium	132594.74		140649.92		6		P
Thallium	6.20	U	31.00	U			P
Vanadium	7.97	B	10.52	B	32		P
Zinc	153.57		166.76		9		P

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10

METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834

Instrument Type: CV InstrumentID: FIMS1 Date: 03/04/2010

Preparation Method: 7470A

Concentration Units (ug/L or mg/kg): ug/L

Analyte	Wavelength /Mass	CRDL	MDL
Mercury	253.70	0.2	0.028

Comments:

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10

METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834

Instrument Type: P InstrumentID: OPTIMA3 Date: 03/03/2010

Preparation Method: 3005A

Concentration Units (ug/L or mg/kg): ug/L

Analyte	Wavelength /Mass	CRDL	MDL
Aluminum	308.21	200	66.0
Antimony	206.83	20	9.3
Arsenic	188.98	20	4.3
Barium	233.53	200	1.1
Beryllium	313.11	5.0	0.26
Cadmium	226.50	5.0	0.89
Calcium	227.54	800	110
Chromium	267.72	20	0.64
Cobalt	228.62	50	0.67
Copper	324.75	30	3.6
Iron	273.96	200	31.0
Lead	220.35	10	4.2
Magnesium	279.08	500	76.0
Manganese	257.61	50	10.0
Nickel	231.60	50	0.85
Potassium	766.49	1000	76.0
Selenium	196.03	30	12.0
Silver	328.07	30	6.9
Sodium	589.59	1000	29.0
Thallium	190.80	20	6.2
Vanadium	292.40	50	1.1
Zinc	206.20	50	4.9

Comments:

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11A

ICP INTERELEMENT CORRECTION FACTORS (BIANNUALLY)

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834

ICP ID Number: OPTIMA3 Date: 03/17/2011

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Cr
Aluminum	308.21		0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0548458	0.0019692	0.0402283	0.0119694	18.0976000
Arsenic	188.97	0.0241052	-0.0179703	-0.0502240	-0.0108453	-5.3626600
Barium	233.52	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.10	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.1165300	0.0000000	0.0000000
Calcium	227.54	-0.3951530		-53.4983000	0.1370440	-2.4637200
Chromium	267.71	0.0000000	0.0000000	0.0000000	0.0044220	
Cobalt	228.61	0.0000000	0.0000000	0.0342838	0.0000000	-0.0770625
Copper	324.75	0.0000000	0.0000000	-0.0466325	0.0029665	-0.0749057
Iron	273.95	0.0000000	0.0000000		0.0000000	-4.2926900
Lead	220.35	-0.0376433	-0.0020174	0.0000000	0.0000000	0.0000000
Magnesium	279.07	0.0000000	0.0000000	0.0000000		0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0060664	0.0303744	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0068563	0.0029325	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	-0.0230022	0.0344876	-0.3266930	-0.0115824	-0.1016280
Silver	328.06	0.0000000	0.0000000	-0.0195341	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.80	0.0000000	-0.0035055	-0.0281063	-0.0065002	0.2697230
Titanium	334.94	0.0000000	-0.0127604	0.0000000	0.0155639	0.1077440
Vanadium	292.40	0.0000000	0.0000000	-0.0646350	0.0000000	-1.5918000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	-2.7465900

Comments:

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11B

ICP INTERELEMENT CORRECTION FACTORS (BIANNUALLY)

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834

ICP ID Number: OPTIMA3 Date: 03/17/2011

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cu	Mn	Ni	Tl	Ti
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.2323840	0.0000000	0.0219824	0.0879220	1.1106900
Arsenic	188.97	-0.1211030	-0.0818075	-0.0385500	0.0000000	-0.7705050
Barium	233.52	0.0000000	0.0000000	0.0338339	0.0000000	0.0000000
Beryllium	313.10	0.0000000	0.0000000	0.0000000	0.0000000	-1.9571600
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	0.1051920
Calcium	227.54	5.8225100	0.0000000	28.4899000	3.5969000	5.3831000
Chromium	267.71	0.0000000	0.1940960	0.0000000	0.0000000	0.0000000
Cobalt	228.61	0.0000000	0.0000000	0.2228410	0.0000000	1.2071700
Copper	324.75		0.0000000	0.0000000	0.0000000	0.0000000
Iron	273.95	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.3749550	0.1018340	-0.1299870	-0.0630506	-0.5488580
Magnesium	279.07	0.0000000	-4.8641600	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000		0.0420350	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000		0.2792550	0.4816400
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	-0.0422333	0.5763650	0.0000000	-0.1188130	0.2916260
Silver	328.06	0.0422486	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.80	0.0000000	0.0000000	-0.0495957		-7.3156200
Titanium	334.94	0.0000000	0.0000000	0.0000000	0.1659360	
Vanadium	292.40	0.2183960	-0.0806874	0.0000000	0.0000000	0.8845330
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP

11B

ICP INTERELEMENT CORRECTION FACTORS (BIANNUALLY)

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834

ICP ID Number: OPTIMA3 Date: 03/17/2011

Analyte	Wave-length (nm)	Interelement Correction Factors for: V	___	___	___	___
Aluminum	308.21	12.0696000				
Antimony	206.83	-2.5893500				
Arsenic	188.97	0.0000000				
Barium	233.52	-1.1190600				
Beryllium	313.10	-0.0336399				
Cadmium	226.50	0.0000000				
Calcium	227.54	30.3214000				
Chromium	267.71	-0.3004160				
Cobalt	228.61	0.0000000				
Copper	324.75	-0.1475070				
Iron	273.95	-30.2263000				
Lead	220.35	-0.0588981				
Magnesium	279.07	0.0000000				
Manganese	257.61	0.0000000				
Nickel	231.60	0.0000000				
Potassium	766.49	0.0000000				
Selenium	196.02	-0.1688320				
Silver	328.06	-0.8565220				
Sodium	589.59	0.0000000				
Thallium	190.80	-0.8892970				
Titanium	334.94	0.0299746				
Vanadium	292.40					
Zinc	206.20	0.0000000				

Comments:

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12

ICP LINEAR RANGES (BIANNUALLY)

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834

ICP ID Number: OPTIMA3 Date: 03/17/2011

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Aluminum	0.20	500000	P
Antimony	0.20	50000	P
Arsenic	0.20	50000	P
Barium	0.20	50000	P
Beryllium	0.20	1000	P
Cadmium	0.20	10000	P
Calcium	0.20	500000	P
Chromium	0.20	25000	P
Cobalt	0.20	100000	P
Copper	0.20	50000	P
Iron	0.20	500000	P
Lead	0.20	100000	P
Magnesium	0.20	500000	P
Manganese	0.20	25000	P
Nickel	0.20	100000	P
Potassium	0.20	400000	P
Selenium	0.20	25000	P
Silver	0.20	2500	P
Sodium	0.20	400000	P
Thallium	0.20	25000	P
Vanadium	0.20	50000	P
Zinc	0.20	25000	P

Comments:

U.S. EPA - CLP

13

PREPARATION LOG

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834

Preparation Method: 3005A Batch ID: 59228

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSW	05/17/2011		50
PBW	05/17/2011		50
SL-MW-12	05/17/2011		50
SL-MW-13	05/17/2011		50
SL-MW-14	05/17/2011		50
SL-MW-16	05/17/2011		50
SL-MW-2	05/17/2011		50
SL-MW-23D	05/17/2011		50
SL-MW-23S	05/17/2011		50
SL-MW-3A	05/17/2011		50
SL-MW-3B	05/17/2011		50
SL-MW-4	05/17/2011		50
SL-MW-4D	05/17/2011		50
SL-MW-4S	05/17/2011		50
SL-MW-5	05/17/2011		50
SL-MW-62	05/17/2011		50
SL-MW-6A	05/17/2011		50
SL-MW-6B	05/17/2011		50

Comments:

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13

PREPARATION LOG

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834

Preparation Method: 7470A Batch ID: 59463

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
CCB	05/28/2011		100
CCV	05/28/2011		100
ICB	05/28/2011		100
ICV	05/28/2011		100
S0	05/28/2011		100
S0.2	05/28/2011		100
S1.0	05/28/2011		100
S10.0	05/28/2011		100
S2.0	05/28/2011		100
S5.0	05/28/2011		100
LCSW	05/28/2011		100
PBW	05/28/2011		100
SL-MW-12	05/28/2011		100
SL-MW-13	05/28/2011		100
SL-MW-14	05/28/2011		100
SL-MW-16	05/28/2011		100
SL-MW-2	05/28/2011		100
SL-MW-23D	05/28/2011		100
SL-MW-23S	05/28/2011		100
SL-MW-3A	05/28/2011		100
SL-MW-3B	05/28/2011		100
SL-MW-4	05/28/2011		100
SL-MW-4D	05/28/2011		100
SL-MW-4S	05/28/2011		100
SL-MW-5	05/28/2011		100
SL-MW-62	05/28/2011		100
SL-MW-6A	05/28/2011		100
SL-MW-6B	05/28/2011		100

Comments:

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14

ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834

Instrument ID Number: FIMS1 Method: CV

Start Date: 05/31/2011 End Date: 05/31/2011

FIMS1_110531B

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.0	1049																X									
S0.2	1.0	1050																X									
S1.0	1.0	1052																X									
S2.0	1.0	1053																X									
S5.0	1.0	1055																X									
S10.0	1.0	1056																X									
ICV	1.0	1058																X									
ICB	1.0	1059																X									
PBW	1.0	1101																X									
ZZZZZZ	1.0	1102																										
SL-MW-12	1.0	1104																X									
SL-MW-62	1.0	1105																X									
SL-MW-13	1.0	1107																X									
SL-MW-14	1.0	1108																X									
SL-MW-23S	1.0	1109																X									
SL-MW-23D	1.0	1111																X									
SL-MW-16	1.0	1112																X									
SL-MW-2	1.0	1114																X									
CCV	1.0	1115																X									
CCB	1.0	1117																X									
SL-MW-3A	1.0	1118																X									
SL-MW-3B	1.0	1120																X									
SL-MW-4	1.0	1121																X									
SL-MW-4D	1.0	1123																X									
SL-MW-4S	1.0	1124																X									
SL-MW-6A	1.0	1126																X									
SL-MW-6B	1.0	1127																X									
SL-MW-5	1.0	1129																X									
ZZZZZZ	1.0	1130																										
ZZZZZZ	1.0	1132																										
CCV	1.0	1133																X									
CCB	1.0	1135																X									

U.S. EPA - CLP

14

ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834

Instrument ID Number: FIMS1 Method: CV

Start Date: 05/31/2011 End Date: 05/31/2011

FIMS1_110531B

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.0	1136																										
ZZZZZZ	1.0	1138																										
ZZZZZZ	1.0	1139																										
ZZZZZZ	1.0	1141																										
ZZZZZZ	1.0	1142																										
ZZZZZZ	1.0	1144																										
ZZZZZZ	1.0	1145																										
ZZZZZZ	1.0	1147																										
ZZZZZZ	1.0	1148																										
ZZZZZZ	1.0	1150																										
CCV	1.0	1151																X										
CCB	1.0	1153																X										
ZZZZZZ	1.0	1154																										
ZZZZZZ	1.0	1156																										
ZZZZZZ	1.0	1157																										
ZZZZZZ	1.0	1159																										
ZZZZZZ	1.0	1200																										
ZZZZZZ	1.0	1202																										
ZZZZZZ	1.0	1203																										
ZZZZZZ	1.0	1205																										
ZZZZZZ	1.0	1206																										
ZZZZZZ	1.0	1208																										
CCV	1.0	1209																X										
CCB	1.0	1211																X										
ZZZZZZ	1.0	1212																										
ZZZZZZ	1.0	1214																										
ZZZZZZ	1.0	1215																										
ZZZZZZ	1.0	1217																										
ZZZZZZ	1.0	1218																										
ZZZZZZ	1.0	1220																										
CCV	1.0	1221																X										
CCB	1.0	1223																X										

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14

ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834

Instrument ID Number: FIMS1 Method: CV

Start Date: 05/31/2011 End Date: 05/31/2011

FIMS1_110531B

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.0	1313																										
ZZZZZZ	1.0	1314																										
LCSW	1.0	1316																X										
CCV	1.0	1317																X										
CCB	1.0	1319																X										

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14

ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834

Instrument ID Number: OPTIMA3 Method: P

Start Date: 05/18/2011 End Date: 05/18/2011

OPTIMA3_110518A

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.0	0737		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
S1	1.0	0741		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
S2	1.0	0745		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
S3	1.0	0748		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICV	1.0	0752		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICB	1.0	0755		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.0	0759																									
ICSA	1.0	0803		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSAB	1.0	0806		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
PBW	1.0	0810		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
LCSW	1.0	0814		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.0	0818																									
ZZZZZZ	1.0	0821																									
SL-MW-12	1.0	0825		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SL-MW-62	1.0	0829		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1.0	0832		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.0	0836		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SL-MW-13	1.0	0840		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SL-MW-14	1.0	0843		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SL-MW-23S	1.0	0847		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SL-MW-23D	1.0	0851		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SL-MW-16	1.0	0855		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SL-MW-2	1.0	0859		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SL-MW-3A	1.0	0904		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SL-MW-3B	1.0	0909		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1.0	0914		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.0	0918		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SL-MW-4	1.0	0923		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SL-MW-4D	1.0	0928		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SL-MW-4S	1.0	0932		X	X	X	X	X	X		X	X	X	X	X		X		X		X	X		X	X	X	
SL-MW-4L	5.0	0935		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.0	0939																									

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14

ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834

Instrument ID Number: OPTIMA3 Method: P

Start Date: 05/18/2011 End Date: 05/18/2011

OPTIMA3_110518A

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
SL-MW-6A	1.0	0943		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SL-MW-6B	1.0	0947		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SL-MW-5	1.0	0950		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1.0	0954		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.0	0957		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

* Metals *

REPORT NARRATIVE

Mitkem Laboratories, a Division of Spectrum Analytical, Inc.

Client : AECOM Environment

Project: Multi Site G, ServAll

Laboratory Workorder / SDG #: K0834

SW846 6010C, SW846 7470A

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 6010C, SW846 7470A

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3005A
Aqueous Samples were prepared following procedures in laboratory test code: SW7470A

V. INSTRUMENTATION

The following instrumentation was used to perform

Instrument Code: FIMS1
Instrument Type: CVAA
Description: FIMS
Manufacturer: Perkin-Elmer
Model: FIMS

Instrument Code: OPTIMA3
Instrument Type: ICP
Description: Optima ICP-OES
Manufacturer: Perkin-Elmer
Model: 4300 DV

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for laboratory control samples were within the QC limits.

2. Matrix spike (MS):

Matrix spike was performed on sample: SL-MW-4 (K0834-12CMS).

Percent recoveries were within the QC limits.

D. Post Digestion Spike (PDS):

A post-digestion spike was not performed on any sample in this SDG.

E. Duplicate sample:

Duplicate analysis was performed on sample: SL-MW-4 (K0834-12CDUP).

Relative percent differences were within the QC limits.

F. Serial Dilution (SD):

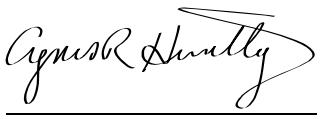
Serial Dilution analysis was performed on sample: SL-MW-4 (K0834-12CSD).

Percent differences were within the QC limits.

G. Samples:

No unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Mitkem, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: 

Date: 06/08/11

Data Flag/Qualifiers:

U Not Detected. This compound was analyzed-for but not detected. For most analyses the reporting limit (lowest standard concentration) is the value listed. For Department of Defense programs, this is the Limit of Detection (LOD).

J This flag indicates an estimated value due to either
- the compound was detected below the reporting limit, or
- estimated concentration for Tentatively Identified Compound

B This flag indicates the compound was also detected in the associated Method Blank. The B flag has an alternative meaning for Inorganics analyses reported using CLP ILM-type metals forms, indicating a "trace" concentration below the reporting limit and equal to or above the detection limit.

D For Organics analysis, this flag indicates the compound concentration was obtained from a secondary dilution analysis

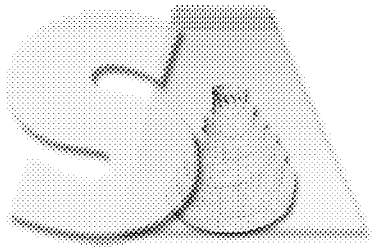
E This flag indicates the compound concentration exceeded the Calibration Range. The E flag has an alternative meaning for Inorganics analyses reported using CLP metals forms, indicating an estimated concentration due to the presence of interferences, as determined by the serial dilution analysis.

P This flag is used for pesticides/PCB/herbicide compound when there is a greater than 40% difference for detected concentration between the two GC columns used for primary and confirmation analyses. This difference typically indicates an interference, causing one value to be unusually high. The **lower** of the two values is generally reported on the Form 1, and both values reported on the Form 10.

A Used to flag semivolatile organic Tentatively Identified Compound library search results for compounds identified as aldol condensation byproducts.

N Used to flag results for volatile and semivolatile Organics analysis Tentatively Identified Compounds where an analyte has passed the identification criteria, and is considered to be positively identified. For Inorganics analysis the N flag indicates the matrix spike recovery falls outside of the control limit.

* For Inorganics analysis the * flag indicates Relative Percent Difference for duplicate analyses is outside of the control limit.



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Sample ID Suffixes

DL Diluted analysis. The sample was diluted and reanalyzed. The DL may be followed by a digit if more than one diluted reanalysis is provided. The DL suffix is not attached to an analysis initially performed at dilution, only to reanalyses performed at dilution

RE Reanalysis. Appended to the client sample ID to indicate a reextraction and reanalysis or a reanalysis of the original sample extract.

RA Reanalysis. Appended to the laboratory sample ID indicates a reanalysis of the original sample extract.

RX Reextraction. Appended to the laboratory sample ID indicates a reextraction of the sample.

MS Matrix Spike.

MSD Matrix Spike Duplicate

DUP Duplicate analysis

SD Serial Dilution

PS Post-digestion or Post-distillation spike. For metals or inorganic analyses

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834-D

SOW No.: SW846

EPA Sample No.	Lab Sample ID
SL-MW-12	K0834-01
SL-MW-13	K0834-03
SL-MW-14	K0834-05
SL-MW-16	K0834-08
SL-MW-2	K0834-09
SL-MW-23D	K0834-07
SL-MW-23S	K0834-06
SL-MW-3A	K0834-10
SL-MW-3B	K0834-11
SL-MW-4	K0834-12
SL-MW-4D	K0834-12DUP
SL-MW-4S	K0834-12MS
SL-MW-5	K0834-15
SL-MW-62	K0834-02
SL-MW-6A	K0834-13
SL-MW-6B	K0834-14

Were ICP interelement corrections applied?	Yes/No	Yes
Were background corrections applied?	Yes/No	Yes
If yes-were raw data generated before application of background corrections?	Yes/No	No

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature

Signature: Name: Huiyan Zhao

Date: 06/07/11 Title:

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

SL-MW-12

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834-D

Matrix (soil/water): WATER Lab Sample ID: K0834-01

Level (low/med): MED Date Received: 05/13/2011

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	66.0	U		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	55.0	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	14000			P
7440-47-3	Chromium	6.8	B		P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	31.0	U		P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	2410			P
7439-96-5	Manganese	298			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	13.3	B		P
7440-09-7	Potassium	3010			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	40000			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	33.9	B		P

Comments:

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

SL-MW-13

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834-D

Matrix (soil/water): WATER Lab Sample ID: K0834-03

Level (low/med): MED Date Received: 05/13/2011

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	107	B		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	40.9	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	77.0			P
7440-70-2	Calcium	7920			P
7440-47-3	Chromium	39.5			P
7440-48-4	Cobalt	4.5	B		P
7440-50-8	Copper	14.9	B		P
7439-89-6	Iron	178	B		P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	2090			P
7439-96-5	Manganese	241			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	309			P
7440-09-7	Potassium	3480			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	36400			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	77.8			P

Comments:

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

SL-MW-14

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834-D

Matrix (soil/water): WATER Lab Sample ID: K0834-05

Level (low/med): MED Date Received: 05/13/2011

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	66.0	U		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	24.3	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	1.0	B		P
7440-70-2	Calcium	9190			P
7440-47-3	Chromium	0.64	B		P
7440-48-4	Cobalt	2.0	B		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	31.0	U		P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	2250			P
7439-96-5	Manganese	13.9	B		P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	4.4	B		P
7440-09-7	Potassium	1520			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	84400			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	21.8	B		P

Comments:

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

SL-MW-16

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834-D

Matrix (soil/water): WATER Lab Sample ID: K0834-08

Level (low/med): MED Date Received: 05/13/2011

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	66.0	U		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	11.6	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	16100			P
7440-47-3	Chromium	38.5			P
7440-48-4	Cobalt	1.4	B		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	1350			P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	7700			P
7439-96-5	Manganese	33.2	B		P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	64.1			P
7440-09-7	Potassium	1730			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	85200			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	18.1	B		P

Comments:

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

SL-MW-2

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834-D

Matrix (soil/water): WATER Lab Sample ID: K0834-09

Level (low/med): MED Date Received: 05/13/2011

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	66.0	U		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	24.8	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	8.8			P
7440-70-2	Calcium	17600			P
7440-47-3	Chromium	7.3	B		P
7440-48-4	Cobalt	0.98	B		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	31.0	U		P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	2610			P
7439-96-5	Manganese	88.4			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	20.5	B		P
7440-09-7	Potassium	2270			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	27800			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	34.1	B		P

Comments:

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

SL-MW-23D

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834-D

Matrix (soil/water): WATER Lab Sample ID: K0834-07

Level (low/med): MED Date Received: 05/13/2011

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	66.0	U		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	20.9	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	18400			P
7440-47-3	Chromium	0.64	U		P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	31.0	U		P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	4000			P
7439-96-5	Manganese	902			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	0.85	U		P
7440-09-7	Potassium	2800			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	16100			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	24.6	B		P

Comments:

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

SL-MW-23S

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834-D

Matrix (soil/water): WATER Lab Sample ID: K0834-06

Level (low/med): MED Date Received: 05/13/2011

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	66.0	U		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	10.1	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	14700			P
7440-47-3	Chromium	0.64	U		P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	31.0	U		P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	5820			P
7439-96-5	Manganese	1130			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	7.8	B		P
7440-09-7	Potassium	1300			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	30100			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	34.4	B		P

Comments:

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

SL-MW-3A

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834-D

Matrix (soil/water): WATER Lab Sample ID: K0834-10

Level (low/med): MED Date Received: 05/13/2011

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	66.0	U		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	14.0	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	19000			P
7440-47-3	Chromium	2.5	B		P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	12.5	B		P
7439-89-6	Iron	40.4	B		P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	800			P
7439-96-5	Manganese	39.0	B		P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	4.9	B		P
7440-09-7	Potassium	2880			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	54400			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	104			P

Comments:

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

SL-MW-3B

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834-D

Matrix (soil/water): WATER Lab Sample ID: K0834-11

Level (low/med): MED Date Received: 05/13/2011

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	66.0	U		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	7.0	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	10100			P
7440-47-3	Chromium	17.4	B		P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	11.1	B		P
7439-89-6	Iron	81.3	B		P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	622			P
7439-96-5	Manganese	10.0	U		P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	55.7			P
7440-09-7	Potassium	1450			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	7560			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	67.7			P

Comments:

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

SL-MW-4

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834-D

Matrix (soil/water): WATER Lab Sample ID: K0834-12

Level (low/med): MED Date Received: 05/13/2011

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	66.0	U		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	26.3	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	19200			P
7440-47-3	Chromium	33.2			P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	7.7	B		P
7439-89-6	Iron	31.0	U		P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	3310			P
7439-96-5	Manganese	417			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	9.8	B		P
7440-09-7	Potassium	2960			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	128000			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	29.3	B		P

Comments:

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

SL-MW-5

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834-D

Matrix (soil/water): WATER Lab Sample ID: K0834-15

Level (low/med): MED Date Received: 05/13/2011

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	66.0	U		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	11.6	B		P
7440-39-3	Barium	33.3	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	8520			P
7440-47-3	Chromium	0.64	U		P
7440-48-4	Cobalt	17.7	B		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	31100			P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	1340			P
7439-96-5	Manganese	1000			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	6.7	B		P
7440-09-7	Potassium	8510			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	35600			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	16.5	B		P

Comments:

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

SL-MW-62

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834-D

Matrix (soil/water): WATER Lab Sample ID: K0834-02

Level (low/med): MED Date Received: 05/13/2011

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	66.0	U		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	55.2	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	13800			P
7440-47-3	Chromium	7.9	B		P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	36.8	B		P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	2400			P
7439-96-5	Manganese	299			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	14.3	B		P
7440-09-7	Potassium	3070			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	40200			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	35.7	B		P

Comments:

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

SL-MW-6A

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834-D

Matrix (soil/water): WATER Lab Sample ID: K0834-13

Level (low/med): MED Date Received: 05/13/2011

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	76.6	B		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	7.1	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	4570			P
7440-47-3	Chromium	12.8	B		P
7440-48-4	Cobalt	0.80	B		P
7440-50-8	Copper	17.1	B		P
7439-89-6	Iron	117	B		P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	968			P
7439-96-5	Manganese	43.5	B		P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	31.5	B		P
7440-09-7	Potassium	2230			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	62000			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.2	B		P
7440-66-6	Zinc	55.1			P

Comments:

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

SL-MW-6B

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834-D

Matrix (soil/water): WATER Lab Sample ID: K0834-14

Level (low/med): MED Date Received: 05/13/2011

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	167	B		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	21.6	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	17800			P
7440-47-3	Chromium	0.64	U		P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	31.0	U		P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	2700			P
7439-96-5	Manganese	10.0	U		P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	3.3	B		P
7440-09-7	Potassium	1810			P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	19500			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	20.7	B		P

Comments:

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834-D

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Mercury	5.0	5.19	103.7	5.0	5.26	105.2	5.26	105.1	CV

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834-D

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Mercury				5.0	5.20	104.0	5.21	104.2	CV

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834-D

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Mercury				5.0	5.15	103.0	5.04	100.7	CV

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834-D

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum	10000.0	9979.69	99.8	10000.0	9953.71	99.5	10089.70	100.9	P
Antimony	500.0	483.54	96.7	500.0	474.55	94.9	490.93	98.2	P
Arsenic	500.0	480.31	96.1	500.0	478.57	95.7	496.47	99.3	P
Barium	10000.0	10123.89	101.2	10000.0	10139.85	101.4	10316.55	103.2	P
Beryllium	250.0	247.20	98.9	250.0	244.86	97.9	252.57	101.0	P
Cadmium	250.0	248.89	99.6	250.0	246.79	98.7	251.32	100.5	P
Calcium	25000.0	25209.07	100.8	25000.0	25145.64	100.6	25705.23	102.8	P
Chromium	1000.0	1029.13	102.9	1000.0	1038.66	103.9	1048.57	104.9	P
Cobalt	2500.0	2593.48	103.7	2500.0	2538.23	101.5	2610.53	104.4	P
Copper	1250.0	1221.08	97.7	1250.0	1214.43	97.2	1234.78	98.8	P
Iron	5000.0	5132.48	102.6	5000.0	5125.83	102.5	5205.82	104.1	P
Lead	500.0	498.40	99.7	500.0	495.51	99.1	511.26	102.3	P
Magnesium	25000.0	24977.26	99.9	25000.0	24718.13	98.9	25486.65	101.9	P
Manganese	2500.0	2498.67	99.9	2500.0	2479.64	99.2	2536.52	101.5	P
Nickel	2500.0	2563.76	102.6	2500.0	2607.18	104.3	2621.20	104.8	P
Potassium	25000.0	25622.96	102.5	25000.0	25956.62	103.8	26512.94	106.1	P
Selenium	500.0	492.28	98.5	500.0	491.78	98.4	501.61	100.3	P
Silver	1250.0	1229.98	98.4	1250.0	1238.42	99.1	1244.77	99.6	P
Sodium	25000.0	25753.22	103.0	25000.0	25995.10	104.0	26471.01	105.9	P
Thallium	500.0	501.47	100.3	500.0	501.36	100.3	514.40	102.9	P
Vanadium	2500.0	2479.92	99.2	2500.0	2512.92	100.5	2528.13	101.1	P
Zinc	2500.0	2550.36	102.0	2500.0	2514.38	100.6	2583.84	103.4	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834-D

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum				10000.0	10291.53	102.9	10028.72	100.3	P
Antimony				500.0	489.08	97.8	475.41	95.1	P
Arsenic				500.0	493.83	98.8	479.56	95.9	P
Barium				10000.0	10370.89	103.7	10244.03	102.4	P
Beryllium				250.0	252.41	101.0	248.04	99.2	P
Cadmium				250.0	253.90	101.6	245.72	98.3	P
Calcium				25000.0	26068.00	104.3	25346.23	101.4	P
Chromium				1000.0	1056.95	105.7	1031.13	103.1	P
Cobalt				2500.0	2634.22	105.4	2560.34	102.4	P
Copper				1250.0	1274.17	101.9	1215.72	97.3	P
Iron				5000.0	5272.74	105.5	5135.74	102.7	P
Lead				500.0	512.51	102.5	496.43	99.3	P
Magnesium				25000.0	25715.48	102.9	25175.31	100.7	P
Manganese				2500.0	2552.75	102.1	2517.48	100.7	P
Nickel				2500.0	2643.51	105.7	2573.42	102.9	P
Potassium				25000.0	26783.25	107.1	26759.05	107.0	P
Selenium				500.0	501.18	100.2	491.77	98.4	P
Silver				1250.0	1271.34	101.7	1225.68	98.1	P
Sodium				25000.0	26658.10	106.6	26672.02	106.7	P
Thallium				500.0	517.59	103.5	500.95	100.2	P
Vanadium				2500.0	2582.77	103.3	2496.61	99.9	P
Zinc				2500.0	2598.83	104.0	2510.81	100.4	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834-D

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum				10000.0	10124.58	101.2	10166.92	101.7	P
Antimony				500.0	481.70	96.3	485.05	97.0	P
Arsenic				500.0	486.59	97.3	488.83	97.8	P
Barium				10000.0	10276.78	102.8	10351.88	103.5	P
Beryllium				250.0	247.43	99.0	247.43	99.0	P
Cadmium				250.0	244.73	97.9	245.20	98.1	P
Calcium				25000.0	25836.79	103.3	25899.97	103.6	P
Chromium				1000.0	1049.40	104.9	1058.44	105.8	P
Cobalt				2500.0	2522.86	100.9	2504.80	100.2	P
Copper				1250.0	1222.92	97.8	1226.31	98.1	P
Iron				5000.0	5178.77	103.6	5208.03	104.2	P
Lead				500.0	505.42	101.1	506.41	101.3	P
Magnesium				25000.0	24926.88	99.7	24995.99	100	P
Manganese				2500.0	2501.71	100.1	2508.25	100.3	P
Nickel				2500.0	2638.55	105.5	2669.18	106.8	P
Potassium				25000.0	26845.20	107.4	26409.81	105.6	P
Selenium				500.0	494.56	98.9	500.43	100.1	P
Silver				1250.0	1246.10	99.7	1257.78	100.6	P
Sodium				25000.0	26872.50	107.5	26454.88	105.8	P
Thallium				500.0	512.98	102.6	513.20	102.6	P
Vanadium				2500.0	2542.94	101.7	2569.52	102.8	P
Zinc				2500.0	2508.31	100.3	2498.29	99.9	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834-D

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum				10000.0	10017.47	100.2	10119.63	101.2	P
Antimony				500.0	478.33	95.7	489.06	97.8	P
Arsenic				500.0	478.79	95.8	482.86	96.6	P
Barium				10000.0	10001.09	100.0	10149.68	101.5	P
Beryllium				250.0	237.56	95.0	244.65	97.9	P
Cadmium				250.0	241.64	96.7	245.77	98.3	P
Calcium				25000.0	25566.39	102.3	25563.68	102.3	P
Chromium				1000.0	1052.35	105.2	1050.17	105.0	P
Cobalt				2500.0	2437.92	97.5	2514.45	100.6	P
Copper				1250.0	1211.36	96.9	1225.70	98.1	P
Iron				5000.0	5124.10	102.5	5176.18	103.5	P
Lead				500.0	498.65	99.7	501.06	100.2	P
Magnesium				25000.0	24593.99	98.4	24941.70	99.8	P
Manganese				2500.0	2407.12	96.3	2467.22	98.7	P
Nickel				2500.0	2660.00	106.4	2638.59	105.5	P
Potassium				25000.0	25840.11	103.4	26424.07	105.7	P
Selenium				500.0	493.24	98.6	501.33	100.3	P
Silver				1250.0	1255.95	100.5	1253.73	100.3	P
Sodium				25000.0	25867.51	103.5	26441.72	105.8	P
Thallium				500.0	506.84	101.4	505.90	101.2	P
Vanadium				2500.0	2565.12	102.6	2541.56	101.7	P
Zinc				2500.0	2436.39	97.5	2507.40	100.3	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834-D

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum				10000.0	9806.73	98.1			P
Antimony				500.0	469.12	93.8			P
Arsenic				500.0	462.00	92.4			P
Barium				10000.0	9836.99	98.4			P
Beryllium				250.0	235.80	94.3			P
Cadmium				250.0	239.63	95.9			P
Calcium				25000.0	24464.04	97.9			P
Chromium				1000.0	1017.56	101.8			P
Cobalt				2500.0	2464.42	98.6			P
Copper				1250.0	1192.09	95.4			P
Iron				5000.0	5045.72	100.9			P
Lead				500.0	481.01	96.2			P
Magnesium				25000.0	24237.10	96.9			P
Manganese				2500.0	2389.34	95.6			P
Nickel				2500.0	2561.31	102.5			P
Potassium				25000.0	25691.10	102.8			P
Selenium				500.0	475.66	95.1			P
Silver				1250.0	1216.22	97.3			P
Sodium				25000.0	25620.15	102.5			P
Thallium				500.0	488.66	97.7			P
Vanadium				2500.0	2458.78	98.4			P
Zinc				2500.0	2450.22	98.0			P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

3

BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834-D

Preparation Blank Matrix (soil/water): WATER

Method Blank ID: **MB-59463**

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

FIMS1_110531B

	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
Analyte		C	1	C	2	C	3	C		C	M
Mercury	0.028	U	0.028	U	0.028	U	0.028	U	0.028	U	CV

U.S. EPA - CLP

3

BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834-D

Preparation Blank Matrix (soil/water): WATER

Method Blank ID: **MB-59464**

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

FIMS1_110531B

	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
Analyte		C	1	C	2	C	3	C		C	M
Mercury			0.028	U	0.028	U	0.028	U	0.028	U	CV

U.S. EPA - CLP

3

BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834-D

Preparation Blank Matrix (soil/water): WATER

Method Blank ID: **MB-59229**

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

OPTIMA3_110518A

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum	66.0	U	66.0	U	66.0	U	66.0	U	66.000	U	P
Antimony	9.3	U	9.3	U	9.3	U	9.3	U	9.300	U	P
Arsenic	4.3	U	4.3	U	4.3	U	4.3	U	4.300	U	P
Barium	2.8	B	1.7	B	1.1	U	1.2	B	1.100	U	P
Beryllium	0.3	U	0.3	U	0.3	U	0.3	U	0.260	U	P
Cadmium	0.9	U	0.9	U	0.9	U	0.9	U	0.890	U	P
Calcium	110.0	U	110.0	U	110.0	U	110.0	U	110.000	U	P
Chromium	0.6	U	0.6	U	0.6	U	0.6	U	0.640	U	P
Cobalt	1.0	B	0.7	B	0.7	U	0.7	U	0.670	U	P
Copper	3.6	U	3.6	U	3.6	U	3.6	U	3.600	U	P
Iron	31.0	U	31.0	U	31.0	U	31.0	U	31.000	U	P
Lead	4.2	U	4.2	U	4.2	U	4.2	U	4.200	U	P
Magnesium	76.0	U	76.0	U	76.0	U	76.0	U	76.000	U	P
Manganese	10.0	U	10.0	U	10.0	U	10.0	U	10.000	U	P
Nickel	0.9	U	0.8	U	0.8	U	0.8	U	0.850	U	P
Potassium	76.0	U	76.0	U	76.0	U	76.0	U	76.000	U	P
Selenium	12.0	U	12.0	U	12.0	U	12.0	U	12.000	U	P
Silver	6.9	U	6.9	U	6.9	U	6.9	U	6.900	U	P
Sodium	31.7	B	46.2	B	45.4	B	50.7	B	29.000	U	P
Thallium	6.2	U	6.2	U	6.2	U	6.2	U	6.200	U	P
Vanadium	1.1	U	1.1	U	1.1	U	1.1	U	1.100	U	P
Zinc	4.9	U	4.9	U	4.9	U	4.9	U	4.900	U	P

U.S. EPA - CLP

3

BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834-D

Preparation Blank Matrix (soil/water): Method Blank ID:

Preparation Blank Concentration Units (ug/L or mg/kg):

OPTIMA3_110518A

	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
Analyte		C	1	C	2	C	3	C		C	M
Aluminum			66.0	U	66.0	U	66.0	U			P
Antimony			9.3	U	9.3	U	9.3	U			P
Arsenic			4.3	U	4.3	U	4.3	U			P
Barium			1.1	U	1.2	B	1.8	B			P
Beryllium			0.3	U	0.3	U	0.3	U			P
Cadmium			0.9	U	0.9	U	0.9	U			P
Calcium			110.0	U	110.0	U	110.0	U			P
Chromium			0.6	U	0.6	U	0.6	U			P
Cobalt			0.7	U	0.7	U	0.7	U			P
Copper			3.6	U	3.6	U	3.6	U			P
Iron			31.0	U	31.0	U	31.0	U			P
Lead			4.2	U	4.2	U	4.2	U			P
Magnesium			76.0	U	76.0	U	76.0	U			P
Manganese			10.0	U	10.0	U	10.0	U			P
Nickel			0.8	U	0.8	U	0.8	U			P
Potassium			76.0	U	114.7	B	83.3	B			P
Selenium			12.0	U	12.0	U	12.0	U			P
Silver			6.9	U	6.9	U	6.9	U			P
Sodium			63.1	B	112.0	B	44.3	B			P
Thallium			6.2	U	6.2	U	6.2	U			P
Vanadium			1.1	U	1.1	U	1.1	U			P
Zinc			4.9	U	4.9	U	4.9	U			P

U.S. EPA - CLP

3

BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834-D

Preparation Blank Matrix (soil/water): Method Blank ID:

Preparation Blank Concentration Units (ug/L or mg/kg):

OPTIMA3_110518A

	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
Analyte		C	1	C	2	C	3	C		C	M
Aluminum			66.0	U	66.0	U	66.0	U			P
Antimony			9.3	U	9.3	U	9.3	U			P
Arsenic			4.3	U	4.3	U	4.3	U			P
Barium			1.4	B	1.1	B	1.1	U			P
Beryllium			0.3	U	0.3	U	0.3	U			P
Cadmium			0.9	U	0.9	U	0.9	U			P
Calcium			110.0	U	110.0	U	110.0	U			P
Chromium			0.6	U	0.6	U	0.6	U			P
Cobalt			0.8	B	0.7	U	0.7	U			P
Copper			3.6	U	3.6	U	3.6	U			P
Iron			31.0	U	31.0	U	31.0	U			P
Lead			4.2	U	4.2	U	4.2	U			P
Magnesium			76.0	U	76.0	U	76.0	U			P
Manganese			10.0	U	10.0	U	10.0	U			P
Nickel			0.8	U	0.8	U	0.8	U			P
Potassium			76.0	U	76.0	U	76.0	U			P
Selenium			12.0	U	12.0	U	12.0	U			P
Silver			6.9	U	6.9	U	6.9	U			P
Sodium			46.3	B	71.3	B	57.0	B			P
Thallium			6.2	U	6.2	U	6.2	U			P
Vanadium			1.1	U	1.1	U	1.1	U			P
Zinc			4.9	U	4.9	U	4.9	U			P

U.S. EPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834-D

ICP ID Number: OPTIMA3 ICS Source:

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found %R	Final Found Sol. AB	Final Found %R
Aluminum	500000	500000	508166	523118.6	104.6				
Antimony	0	600	1	591.4	98.6				
Arsenic	0	100	-5	103.8	103.8				
Barium	0	500	1	520.8	104.2				
Beryllium	0	500	0	503.4	100.7				
Cadmium	0	1000	2	969.6	97.0				
Calcium	500000	500000	525435	533814.7	106.8				
Chromium	0	500	1	505.2	101.0				
Cobalt	0	500	-2	487.5	97.5				
Copper	0	500	-2	542.9	108.6				
Iron	200000	200000	192706	196146.1	98.1				
Lead	0	500	-3	479.6	95.9				
Magnesium	500000	500000	493581	502801.6	100.6				
Manganese	0	500	-18	486	97.2				
Nickel	0	1000	-3	963.3	96.3				
Potassium	0	25000	76	27744.1	111.0				
Selenium	0	500	-2	489.8	98.0				
Silver	0	200	0	218.6	109.3				
Sodium	0	25000	79	26922.5	107.7				
Thallium	0	100	-3	91.7	91.7				
Vanadium	0	500	2	510	102.0				
Zinc	0	1000	3	964.3	96.4				

U.S. EPA - CLP

5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SL-MW-4S

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834-D

Matrix (soil/water): WATER Level (low/med): MED

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	9160		66.0	U	9100	101		P
Antimony	75-125	441		9.3	U	456	97		P
Arsenic	75-125	466		4.3	U	456	102		P
Barium	75-125	9130		26.3	B	9100	100		P
Beryllium	75-125	223		0.26	U	227	98		P
Cadmium	75-125	226		0.89	U	227	99		P
Chromium	75-125	945		33.2		910	100		P
Cobalt	75-125	2210		0.67	U	2270	97		P
Copper	75-125	1110		7.7	B	1130	98		P
Iron	75-125	4620		31.0	U	4550	102		P
Lead	75-125	456		4.2	U	455	100		P
Manganese	75-125	2620		417		2270	97		P
Nickel	75-125	2360		9.8	B	2270	103		P
Selenium	75-125	453		12.0	U	455	100		P
Silver	75-125	1130		6.9	U	1130	100		P
Thallium	75-125	457		6.2	U	455	100		P
Vanadium	75-125	2260		1.1	U	2270	100		P
Zinc	75-125	2240		29.3	B	2270	97		P
Mercury	75-125	5.0		0.028	U	4.6	111		CV

Comments:

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6

DUPLICATES

EPA SAMPLE NO.

SL-MW-4D

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834-D

Matrix (soil/water): WATER Level (low/med): MED

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		66.0000	U	66.0000	U			P
Antimony		9.3000	U	9.3000	U			P
Arsenic		4.3000	U	4.3000	U			P
Barium		26.2716	B	25.6517	B	2.4		P
Beryllium		0.2600	U	0.2600	U			P
Cadmium		0.8900	U	0.8900	U			P
Calcium		19220.3465		18514.5551		3.7		P
Chromium	20.0	33.2497		31.8298		4.4		P
Cobalt		0.6700	U	0.6700	U			P
Copper		7.6931	B	6.7059	B	13.7		P
Iron		31.0000	U	31.0000	U			P
Lead		4.2000	U	4.2000	U			P
Magnesium		3306.0969		3219.1449		2.7		P
Manganese		416.8438		408.4287		2		P
Nickel		9.7870	B	9.7331	B	0.6		P
Potassium	1000.0	2960.4644		3007.3182		1.6		P
Selenium		12.0000	U	12.0000	U			P
Silver		6.9000	U	6.9000	U			P
Sodium		127990.6830		129190.3291		0.9		P
Thallium		6.2000	U	6.2000	U			P
Vanadium		1.1000	U	1.1000	U			P
Zinc		29.3326	B	26.8121	B	9		P
Mercury		0.0280	U	0.0280	U			CV

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7

LABORATORY CONTROL SAMPLE

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834-D

Solid LCS Source:

Aqueous LCS Source:

LCS(D) ID:
LCS-59229

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/Kg) True	Found	C	Limits		%R
Aluminum	9100.0	8964.66	98.5						
Antimony	455.0	429.73	94.4						
Arsenic	455.0	452.27	99.4						
Barium	9100.0	8965.22	98.5						
Beryllium	227.0	216.27	95.3						
Cadmium	227.0	223.21	98.3						
Calcium	22700.0	22260.95	98.1						
Chromium	910.0	915.29	100.6						
Cobalt	2270.0	2167.35	95.5						
Copper	1130.0	1076.60	95.3						
Iron	4550.0	4580.49	100.7						
Lead	455.0	455.88	100.2						
Magnesium	22700.0	21895.46	96.5						
Manganese	2270.0	2166.34	95.4						
Nickel	2270.0	2350.68	103.6						
Potassium	22700.0	23432.37	103.2						
Selenium	455.0	444.03	97.6						
Silver	1130.0	1129.11	99.9						
Sodium	22700.0	23715.51	104.5						
Thallium	455.0	462.99	101.8						
Vanadium	2270.0	2256.04	99.4						
Zinc	2270.0	2160.83	95.2						

LABORATORY CONTROL SAMPLE

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834-D

Solid LCS Source:

Aqueous LCS Source:

LCS(D) ID: **LCS-59463**

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/Kg) True	Found	C	Limits		%R
Mercury	4.6	4.94	107.4						

LABORATORY CONTROL SAMPLE

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834-D

Solid LCS Source:

Aqueous LCS Source:

LCS(D) ID:
LCS-59464

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/Kg) True	Found	C	Limits		%R
Mercury	4.6	4.46	97.0						

9

ICP SERIAL DILUTIONS

EPA SAMPLE NO.

SL-MW-4

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834-D

Matrix (soil/water): WATER Level (low/med): MED

Concentration Units (ug/L or mg/kg dry weight): ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	66.00	U	330.00	U			P
Antimony	9.30	U	46.50	U			P
Arsenic	4.30	U	21.50	U			P
Barium	26.27	B	30.63	B	17		P
Beryllium	0.26	U	1.30	U			P
Cadmium	0.89	U	4.45	U			P
Calcium	19220.35		18873.13		2		P
Chromium	33.25		32.72		2		P
Cobalt	0.67	U	3.35	U			P
Copper	7.69	B	18.00	U	100		P
Iron	31.00	U	155.00	U			P
Lead	4.20	U	21.00	U			P
Magnesium	3306.10		3422.17		4		P
Manganese	416.84		425.03		2		P
Nickel	9.79	B	12.75	B	30		P
Potassium	2960.46		3503.27		18		P
Selenium	12.00	U	60.00	U			P
Silver	6.90	U	34.50	U			P
Sodium	127990.68		137850.22		8		P
Thallium	6.20	U	31.00	U			P
Vanadium	1.10	U	5.50	U			P
Zinc	29.33	B	40.19	B	37		P

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10

METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834-D

Instrument Type: CV InstrumentID: FIMS1 Date: 03/04/2010

Preparation Method: 7470A

Concentration Units (ug/L or mg/kg): ug/L

Analyte	Wavelength /Mass	CRDL	MDL
Mercury	253.70	0.2	0.028

Comments:

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10

METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834-D

Instrument Type: P InstrumentID: OPTIMA3 Date: 03/03/2010

Preparation Method: 3005A

Concentration Units (ug/L or mg/kg): ug/L

Analyte	Wavelength /Mass	CRDL	MDL
Aluminum	308.21	200	66.0
Antimony	206.83	20	9.3
Arsenic	188.98	20	4.3
Barium	233.53	200	1.1
Beryllium	313.11	5.0	0.26
Cadmium	226.50	5.0	0.89
Calcium	227.54	800	110
Chromium	267.72	20	0.64
Cobalt	228.62	50	0.67
Copper	324.75	30	3.6
Iron	273.96	200	31.0
Lead	220.35	10	4.2
Magnesium	279.08	500	76.0
Manganese	257.61	50	10.0
Nickel	231.60	50	0.85
Potassium	766.49	1000	76.0
Selenium	196.03	30	12.0
Silver	328.07	30	6.9
Sodium	589.59	1000	29.0
Thallium	190.80	20	6.2
Vanadium	292.40	50	1.1
Zinc	206.20	50	4.9

Comments:

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11A

ICP INTERELEMENT CORRECTION FACTORS (BIANNUALLY)

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834-D

ICP ID Number: OPTIMA3 Date: 03/17/2011

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Cr
Aluminum	308.21		0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0548458	0.0019692	0.0402283	0.0119694	18.0976000
Arsenic	188.97	0.0241052	-0.0179703	-0.0502240	-0.0108453	-5.3626600
Barium	233.52	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.10	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.1165300	0.0000000	0.0000000
Calcium	227.54	-0.3951530		-53.4983000	0.1370440	-2.4637200
Chromium	267.71	0.0000000	0.0000000	0.0000000	0.0044220	
Cobalt	228.61	0.0000000	0.0000000	0.0342838	0.0000000	-0.0770625
Copper	324.75	0.0000000	0.0000000	-0.0466325	0.0029665	-0.0749057
Iron	273.95	0.0000000	0.0000000		0.0000000	-4.2926900
Lead	220.35	-0.0376433	-0.0020174	0.0000000	0.0000000	0.0000000
Magnesium	279.07	0.0000000	0.0000000	0.0000000		0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0060664	0.0303744	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0068563	0.0029325	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	-0.0230022	0.0344876	-0.3266930	-0.0115824	-0.1016280
Silver	328.06	0.0000000	0.0000000	-0.0195341	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.80	0.0000000	-0.0035055	-0.0281063	-0.0065002	0.2697230
Titanium	334.94	0.0000000	-0.0127604	0.0000000	0.0155639	0.1077440
Vanadium	292.40	0.0000000	0.0000000	-0.0646350	0.0000000	-1.5918000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	-2.7465900

Comments:

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11B

ICP INTERELEMENT CORRECTION FACTORS (BIANNUALLY)

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834-D

ICP ID Number: OPTIMA3 Date: 03/17/2011

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cu	Mn	Ni	Tl	Ti
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.2323840	0.0000000	0.0219824	0.0879220	1.1106900
Arsenic	188.97	-0.1211030	-0.0818075	-0.0385500	0.0000000	-0.7705050
Barium	233.52	0.0000000	0.0000000	0.0338339	0.0000000	0.0000000
Beryllium	313.10	0.0000000	0.0000000	0.0000000	0.0000000	-1.9571600
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	0.1051920
Calcium	227.54	5.8225100	0.0000000	28.4899000	3.5969000	5.3831000
Chromium	267.71	0.0000000	0.1940960	0.0000000	0.0000000	0.0000000
Cobalt	228.61	0.0000000	0.0000000	0.2228410	0.0000000	1.2071700
Copper	324.75		0.0000000	0.0000000	0.0000000	0.0000000
Iron	273.95	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.3749550	0.1018340	-0.1299870	-0.0630506	-0.5488580
Magnesium	279.07	0.0000000	-4.8641600	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000		0.0420350	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000		0.2792550	0.4816400
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	-0.0422333	0.5763650	0.0000000	-0.1188130	0.2916260
Silver	328.06	0.0422486	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.80	0.0000000	0.0000000	-0.0495957		-7.3156200
Titanium	334.94	0.0000000	0.0000000	0.0000000	0.1659360	
Vanadium	292.40	0.2183960	-0.0806874	0.0000000	0.0000000	0.8845330
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

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11B

ICP INTERELEMENT CORRECTION FACTORS (BIANNUALLY)

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834-D

ICP ID Number: OPTIMA3 Date: 03/17/2011

Analyte	Wave-length (nm)	Interelement Correction Factors for: V	___	___	___	___
Aluminum	308.21	12.0696000				
Antimony	206.83	-2.5893500				
Arsenic	188.97	0.0000000				
Barium	233.52	-1.1190600				
Beryllium	313.10	-0.0336399				
Cadmium	226.50	0.0000000				
Calcium	227.54	30.3214000				
Chromium	267.71	-0.3004160				
Cobalt	228.61	0.0000000				
Copper	324.75	-0.1475070				
Iron	273.95	-30.2263000				
Lead	220.35	-0.0588981				
Magnesium	279.07	0.0000000				
Manganese	257.61	0.0000000				
Nickel	231.60	0.0000000				
Potassium	766.49	0.0000000				
Selenium	196.02	-0.1688320				
Silver	328.06	-0.8565220				
Sodium	589.59	0.0000000				
Thallium	190.80	-0.8892970				
Titanium	334.94	0.0299746				
Vanadium	292.40					
Zinc	206.20	0.0000000				

Comments:

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12

ICP LINEAR RANGES (BIANNUALLY)

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834-D

ICP ID Number: OPTIMA3 Date: 03/17/2011

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Aluminum	0.20	500000	P
Antimony	0.20	50000	P
Arsenic	0.20	50000	P
Barium	0.20	50000	P
Beryllium	0.20	1000	P
Cadmium	0.20	10000	P
Calcium	0.20	500000	P
Chromium	0.20	25000	P
Cobalt	0.20	100000	P
Copper	0.20	50000	P
Iron	0.20	500000	P
Lead	0.20	100000	P
Magnesium	0.20	500000	P
Manganese	0.20	25000	P
Nickel	0.20	100000	P
Potassium	0.20	400000	P
Selenium	0.20	25000	P
Silver	0.20	2500	P
Sodium	0.20	400000	P
Thallium	0.20	25000	P
Vanadium	0.20	50000	P
Zinc	0.20	25000	P

Comments:

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13

PREPARATION LOG

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834-D

Preparation Method: 3005A Batch ID: 59229

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSW	05/17/2011		50
PBW	05/17/2011		50
SL-MW-12	05/17/2011		50
SL-MW-13	05/17/2011		50
SL-MW-14	05/17/2011		50
SL-MW-16	05/17/2011		50
SL-MW-2	05/17/2011		50
SL-MW-23D	05/17/2011		50
SL-MW-23S	05/17/2011		50
SL-MW-3A	05/17/2011		50
SL-MW-3B	05/17/2011		50
SL-MW-4	05/17/2011		50
SL-MW-4D	05/17/2011		50
SL-MW-4S	05/17/2011		50
SL-MW-5	05/17/2011		50
SL-MW-62	05/17/2011		50
SL-MW-6A	05/17/2011		50
SL-MW-6B	05/17/2011		50

Comments:

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13

PREPARATION LOG

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834-D

Preparation Method: 7470A Batch ID: 59463

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
CCB	05/28/2011		100
CCV	05/28/2011		100
ICB	05/28/2011		100
ICV	05/28/2011		100
S0	05/28/2011		100
S0.2	05/28/2011		100
S1.0	05/28/2011		100
S10.0	05/28/2011		100
S2.0	05/28/2011		100
S5.0	05/28/2011		100
LCSW	05/28/2011		100
PBW	05/28/2011		100
SL-MW-12	05/28/2011		100
SL-MW-13	05/28/2011		100
SL-MW-14	05/28/2011		100
SL-MW-62	05/28/2011		100

Comments:

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13

PREPARATION LOG

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834-D

Preparation Method: 7470A Batch ID: 59464

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSW	05/28/2011		100
PBW	05/28/2011		100
SL-MW-16	05/28/2011		100
SL-MW-2	05/28/2011		100
SL-MW-23D	05/28/2011		100
SL-MW-23S	05/28/2011		100
SL-MW-3A	05/28/2011		100
SL-MW-3B	05/28/2011		100
SL-MW-4	05/28/2011		100
SL-MW-4D	05/28/2011		100
SL-MW-4S	05/28/2011		100
SL-MW-5	05/28/2011		100
SL-MW-6A	05/28/2011		100
SL-MW-6B	05/28/2011		100

Comments:

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14

ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834-D

Instrument ID Number: FIMS1 Method: CV

Start Date: 05/31/2011 End Date: 05/31/2011

FIMS1_110531B

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.0	1049																X									
S0.2	1.0	1050																X									
S1.0	1.0	1052																X									
S2.0	1.0	1053																X									
S5.0	1.0	1055																X									
S10.0	1.0	1056																X									
ICV	1.0	1058																X									
ICB	1.0	1059																X									
PBW	1.0	1101																X									
ZZZZZZ	1.0	1102																										
ZZZZZZ	1.0	1104																										
ZZZZZZ	1.0	1105																										
ZZZZZZ	1.0	1107																										
ZZZZZZ	1.0	1108																										
ZZZZZZ	1.0	1109																										
ZZZZZZ	1.0	1111																										
ZZZZZZ	1.0	1112																										
ZZZZZZ	1.0	1114																										
CCV	1.0	1115																X									
CCB	1.0	1117																X									
ZZZZZZ	1.0	1118																										
ZZZZZZ	1.0	1120																										
ZZZZZZ	1.0	1121																										
ZZZZZZ	1.0	1123																										
ZZZZZZ	1.0	1124																										
ZZZZZZ	1.0	1126																										
ZZZZZZ	1.0	1127																										
ZZZZZZ	1.0	1129																										
SL-MW-12	1.0	1130																X									
SL-MW-62	1.0	1132																X									
CCV	1.0	1133																X									
CCB	1.0	1135																X									

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14

ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834-D

Instrument ID Number: FIMS1 Method: CV

Start Date: 05/31/2011 End Date: 05/31/2011

FIMS1_110531B

EPA Sample No.	D/F	Time	% R	Analytes																									
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
SL-MW-13	1.0	1136																X										
SL-MW-14	1.0	1138																X										
PBW	1.0	1139																X										
LCSW	1.0	1141																X										
SL-MW-23S	1.0	1142																X										
SL-MW-23D	1.0	1144																X										
SL-MW-16	1.0	1145																X										
SL-MW-2	1.0	1147																X										
SL-MW-3A	1.0	1148																X										
SL-MW-3B	1.0	1150																X										
CCV	1.0	1151																X										
CCB	1.0	1153																X										
SL-MW-4	1.0	1154																X										
SL-MW-4D	1.0	1156																X										
SL-MW-4S	1.0	1157																X										
SL-MW-6A	1.0	1159																X										
SL-MW-6B	1.0	1200																X										
SL-MW-5	1.0	1202																X										
ZZZZZZ	1.0	1203																											
ZZZZZZ	1.0	1205																											
ZZZZZZ	1.0	1206																											
ZZZZZZ	1.0	1208																											
CCV	1.0	1209																X										
CCB	1.0	1211																X										
ZZZZZZ	1.0	1212																											
ZZZZZZ	1.0	1214																											
ZZZZZZ	1.0	1215																											
ZZZZZZ	1.0	1217																											
ZZZZZZ	1.0	1218																											
ZZZZZZ	1.0	1220																											
CCV	1.0	1221																X										
CCB	1.0	1223																X										

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14

ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834-D

Instrument ID Number: FIMS1 Method: CV

Start Date: 05/31/2011 End Date: 05/31/2011

FIMS1_110531B

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.0	1313																										
ZZZZZZ	1.0	1314																										
LCSW	1.0	1316																X										
CCV	1.0	1317																X										
CCB	1.0	1319																X										

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14

ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834-D

Instrument ID Number: OPTIMA3 Method: P

Start Date: 05/18/2011 End Date: 05/18/2011

OPTIMA3_110518A

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.0	0737		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
S1	1.0	0741		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
S2	1.0	0745		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
S3	1.0	0748		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICV	1.0	0752		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICB	1.0	0755		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.0	0759																									
ICSA	1.0	0803		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSAB	1.0	0806		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.0	0810																									
ZZZZZZ	1.0	0814																									
ZZZZZZ	1.0	0818																									
ZZZZZZ	1.0	0821																									
ZZZZZZ	1.0	0825																									
ZZZZZZ	1.0	0829																									
CCV	1.0	0832		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.0	0836		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.0	0840																									
ZZZZZZ	1.0	0843																									
ZZZZZZ	1.0	0847																									
ZZZZZZ	1.0	0851																									
ZZZZZZ	1.0	0855																									
ZZZZZZ	1.0	0859																									
ZZZZZZ	1.0	0904																									
ZZZZZZ	1.0	0909																									
CCV	1.0	0914		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.0	0918		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.0	0923																									
ZZZZZZ	1.0	0928																									
ZZZZZZ	1.0	0932																									
ZZZZZZ	5.0	0935																									
ZZZZZZ	1.0	0939																									

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14

ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834-D

Instrument ID Number: OPTIMA3 Method: P

Start Date: 05/18/2011 End Date: 05/18/2011

OPTIMA3_110518A

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.0	0943																									
ZZZZZZ	1.0	0947																									
ZZZZZZ	1.0	0950																									
CCV	1.0	0954		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.0	0957		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.0	1001																									
ZZZZZZ	1.0	1005																									
ZZZZZZ	1.0	1008																									
ZZZZZZ	1.0	1012																									
ZZZZZZ	1.0	1016																									
ZZZZZZ	1.0	1020																									
ZZZZZZ	1.0	1023																									
CCV	1.0	1027		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.0	1031		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.0	1034																									
ZZZZZZ	1.0	1038																									
ZZZZZZ	1.0	1042																									
ZZZZZZ	5.0	1045																									
ZZZZZZ	1.0	1049																									
ZZZZZZ	1.0	1053																									
ZZZZZZ	1.0	1057																									
ZZZZZZ	1.0	1100																									
CCV	1.0	1104		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.0	1108		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.0	1111																									
ZZZZZZ	1.0	1115																									
ZZZZZZ	1.0	1119																									
ZZZZZZ	1.0	1123																									
ZZZZZZ	20.0	1126																									
CCV	1.0	1130		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.0	1134		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
PBW	1.0	1137		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	

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14

ANALYSIS RUN LOG

Lab Name: Spectrum Analytical, Inc. Contract: 95900-04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK0834-D

Instrument ID Number: OPTIMA3 Method: P

Start Date: 05/18/2011 End Date: 05/18/2011

OPTIMA3_110518A

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN	
LCSW	1.0	1141		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		
SL-MW-12	1.0	1145		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		
SL-MW-62	1.0	1148		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		
SL-MW-13	1.0	1152		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		
SL-MW-14	1.0	1156		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		
SL-MW-23S	1.0	1200		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		
SL-MW-23D	1.0	1203		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		
CCV	1.0	1207		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		
CCB	1.0	1211		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		
SL-MW-16	1.0	1214		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		
SL-MW-2	1.0	1218		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		
SL-MW-3A	1.0	1222		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		
SL-MW-3B	1.0	1225		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		
SL-MW-4	1.0	1229		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		
SL-MW-4D	1.0	1233		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		
SL-MW-4S	1.0	1237		X	X	X	X	X	X		X	X	X	X	X		X		X		X	X		X	X	X		
SL-MW-4L	5.0	1240		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		
CCV	1.0	1244		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		
CCB	1.0	1248		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		
ZZZZZZ	1.0	1251																										
SL-MW-6A	1.0	1255		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		
SL-MW-6B	1.0	1259		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		
SL-MW-5	1.0	1302		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		
CCV	1.0	1306		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		
CCB	1.0	1310		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		

Instrument Raw Data

- [X] ICP
- [X] Mercury
- [ ] Cyanide

Analysis Begun

Start Time: 5/18/2011 7:37:41 AM
Plasma On Time: 5/18/2011 6:56:26 AM
Logged In Analyst: mitOptima3
Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N3102302Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\0518A.sif
Batch ID: Null
Results Data Set: B11051801
Results Library: C:\pe\Administrator\Results\Results.mdb

Method Loaded
Method Name: 6010C
Method Last Saved: 5/12/2011 12:58:43 PM
IEC File: B11031703X.iec
MSF File:
Method Description: mixed axial radial with Y and Lu

Sequence No.: 1
Autosampler Location: 1
Sample ID: S0
Date Collected: 5/18/2011 7:37:42 AM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	1040502.1	4319.41	0.42%	100.00	%
Lu 261.542	1144097.7	5291.00	0.46%	100.0	%
Ag 328.068†	-1206.9	28.00	2.32%	[0.00]	mg/L
Al 308.215†	8075.3	65.24	0.81%	[0.00]	mg/L
As 188.979†	6.4	2.53	39.62%	[0.00]	mg/L
Ba 233.527†	-53.1	3.11	5.86%	[0.00]	mg/L
Be 313.107†	-358.2	33.08	9.23%	[0.00]	mg/L
Co 228.616†	-29.3	1.90	6.47%	[0.00]	mg/L
Cr 267.716†	-10.6	3.48	32.91%	[0.00]	mg/L
Cu 324.752†	949.2	5.58	0.59%	[0.00]	mg/L
Fe 273.955†	-710.5	10.59	1.49%	[0.00]	mg/L
Mg 279.077†	-1309.0	38.45	2.94%	[0.00]	mg/L
Mn 257.610†	-31.4	5.15	16.37%	[0.00]	mg/L
Ni 231.604†	-97.4	1.87	1.92%	[0.00]	mg/L
Pb 220.353†	39.3	6.63	16.87%	[0.00]	mg/L
Sb 206.836†	51.4	4.72	9.20%	[0.00]	mg/L
Se 196.026†	-5.6	5.77	103.37%	[0.00]	mg/L
Tl 190.801†	-21.9	1.69	7.75%	[0.00]	mg/L
V 292.402†	-0.8	30.47	>999.9%	[0.00]	mg/L
Zn 206.200†	14.6	2.36	16.19%	[0.00]	mg/L
Cd 226.502†	-1.1	1.64	144.65%	[0.00]	mg/L
Ti 334.940†	-42.2	33.16	78.54%	[0.00]	mg/L
Ca 227.546†	92.3	5.25	5.68%	[0.00]	mg/L
Na 589.592	178.6	43.67	24.45%	[0.00]	mg/L
K 766.490	109.2	28.37	25.99%	[0.00]	mg/L

Sequence No.: 2
Autosampler Location: 9
Sample ID: S1
Date Collected: 5/18/2011 7:41:19 AM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:

Mean Data: S1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	987437.1	7039.39	0.71%	94.900	%
Lu 261.542	1107601.7	7546.71	0.68%	96.81	%
Ag 328.068†	271036.1	4196.59	1.55%	[2.5]	mg/L
Al 308.215†	367288.8	8560.17	2.33%	[20]	mg/L

As 188.979†	1329.5	21.91	1.65%	[1]	mg/L
Ba 233.527†	1319526.6	17054.36	1.29%	[20]	mg/L
Be 313.107†	617613.6	7822.17	1.27%	[0.5]	mg/L
Co 228.616†	72930.4	1676.73	2.30%	[5]	mg/L
Cr 267.716†	85750.2	1781.93	2.08%	[2]	mg/L
Cu 324.752†	454079.1	4896.63	1.08%	[2.5]	mg/L
Fe 273.955†	193027.4	4120.00	2.13%	[10]	mg/L
Mg 279.077†	710408.8	9993.67	1.41%	[50]	mg/L
Mn 257.610†	1852668.4	24252.13	1.31%	[5]	mg/L
Ni 231.604†	80821.1	1831.28	2.27%	[5]	mg/L
Pb 220.353†	5298.8	68.21	1.29%	[1]	mg/L
Sb 206.836†	2016.9	35.59	1.76%	[1]	mg/L
Se 196.026†	812.0	9.44	1.16%	[1]	mg/L
Tl 190.801†	1516.4	12.95	0.85%	[1]	mg/L
V 292.402†	319809.9	3831.21	1.20%	[5]	mg/L
Zn 206.200†	107797.5	2342.57	2.17%	[5]	mg/L
Cd 226.502†	19751.5	447.59	2.27%	[0.5]	mg/L
Ti 334.940†	428446.6	5351.25	1.25%	[1]	mg/L
Ca 227.546†	8971.4	101.92	1.14%	[50]	mg/L
Na 589.592	153535.2	590.49	0.38%	[50]	mg/L
K 766.490	62950.0	194.76	0.31%	[50]	mg/L

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Sequence No.: 3 **Autosampler Location: 10**
Sample ID: S2 **Date Collected: 5/18/2011 7:45:02 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: S2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	1023139.6	15647.63	1.53%	98.331	%
Lu 261.542	1148178.6	13961.01	1.22%	100.4	%
Ag 328.068†	132760.5	343.42	0.26%	[1.25]	mg/L
Al 308.215†	180532.8	745.90	0.41%	[10]	mg/L
As 188.979†	649.3	6.39	0.98%	[0.5]	mg/L
Ba 233.527†	649425.4	2441.83	0.38%	[10]	mg/L
Be 313.107†	297026.4	1626.24	0.55%	[0.25]	mg/L
Co 228.616†	35886.0	229.99	0.64%	[2.5]	mg/L
Cr 267.716†	42640.6	290.78	0.68%	[1]	mg/L
Cu 324.752†	216963.5	472.37	0.22%	[1.25]	mg/L
Fe 273.955†	95852.5	571.07	0.60%	[5]	mg/L
Mg 279.077†	348896.9	2429.72	0.70%	[25]	mg/L
Mn 257.610†	903980.2	4047.49	0.45%	[2.5]	mg/L
Ni 231.604†	40727.5	380.71	0.93%	[2.5]	mg/L
Pb 220.353†	2624.5	26.75	1.02%	[0.5]	mg/L
Sb 206.836†	979.6	11.81	1.21%	[0.5]	mg/L
Se 196.026†	395.5	2.24	0.57%	[0.5]	mg/L
Tl 190.801†	754.9	9.95	1.32%	[0.5]	mg/L
V 292.402†	156173.9	939.03	0.60%	[2.5]	mg/L
Zn 206.200†	53731.4	442.23	0.82%	[2.5]	mg/L
Cd 226.502†	9742.6	101.29	1.04%	[0.25]	mg/L
Ti 334.940†	205395.0	968.62	0.47%	[0.5]	mg/L
Ca 227.546†	4342.3	39.81	0.92%	[25]	mg/L
Na 589.592	76842.2	266.86	0.35%	[25]	mg/L
K 766.490	31534.1	139.41	0.44%	[25]	mg/L

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Sequence No.: 4 **Autosampler Location: 11**
Sample ID: S3 **Date Collected: 5/18/2011 7:48:36 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: S3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	1052979.6	4744.16	0.45%	101.20	%

Lu 261.542	1159627.2	5312.62	0.46%	101.4	%
Ag 328.068†	2803.3	39.44	1.41%	[0.025]	mg/L
Al 308.215†	3695.1	121.33	3.28%	[0.2]	mg/L
As 188.979†	14.5	4.62	31.80%	[0.01]	mg/L
Ba 233.527†	13593.0	176.37	1.30%	[0.2]	mg/L
Be 313.107†	5879.4	133.95	2.28%	[0.005]	mg/L
Co 228.616†	731.6	2.97	0.41%	[0.05]	mg/L
Cr 267.716†	857.3	13.97	1.63%	[0.02]	mg/L
Cu 324.752†	4203.4	60.85	1.45%	[0.025]	mg/L
Fe 273.955†	1947.4	52.09	2.67%	[0.1]	mg/L
Mg 279.077†	7234.9	105.13	1.45%	[0.5]	mg/L
Mn 257.610†	18923.0	289.57	1.53%	[0.05]	mg/L
Ni 231.604†	826.0	1.63	0.20%	[0.05]	mg/L
Pb 220.353†	45.0	8.22	18.27%	[0.01]	mg/L
Sb 206.836†	32.6	4.69	14.40%	[0.01]	mg/L
Se 196.026†	1.6	4.90	311.77%	[0.01]	mg/L
Tl 190.801†	13.8	3.58	25.92%	[0.01]	mg/L
V 292.402†	3093.6	30.27	0.98%	[0.05]	mg/L
Zn 206.200†	1105.7	3.33	0.30%	[0.05]	mg/L
Cd 226.502†	199.9	2.30	1.15%	[0.005]	mg/L
Ti 334.940†	4073.9	73.03	1.79%	[0.01]	mg/L
Ca 227.546†	91.1	1.85	2.03%	[0.5]	mg/L
Na 589.592	1627.3	14.51	0.89%	[0.5]	mg/L
K 766.490	672.8	45.51	6.76%	[0.5]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	108000	0.00000	0.999967	
Al 308.215	3	Lin Thru 0	0.0	18300	0.00000	0.999977	
As 188.979	3	Lin Thru 0	0.0	1323	0.00000	0.999956	
Ba 233.527	3	Lin Thru 0	0.0	65770	0.00000	0.999980	
Be 313.107	3	Lin Thru 0	0.0	1226000	0.00000	0.999882	
Co 228.616	3	Lin Thru 0	0.0	14540	0.00000	0.999980	
Cr 267.716	3	Lin Thru 0	0.0	42830	0.00000	0.999998	
Cu 324.752	3	Lin Thru 0	0.0	180000	0.00000	0.999839	
Fe 273.955	3	Lin Thru 0	0.0	19280	0.00000	0.999996	
Mg 279.077	3	Lin Thru 0	0.0	14160	0.00000	0.999975	
Mn 257.610	3	Lin Thru 0	0.0	368700	0.00000	0.999953	
Ni 231.604	3	Lin Thru 0	0.0	16190	0.00000	0.999995	
Pb 220.353	3	Lin Thru 0	0.0	5289	0.00000	0.999992	
Sb 206.836	3	Lin Thru 0	0.0	2005	0.00000	0.999918	
Se 196.026	3	Lin Thru 0	0.0	807.7	0.00000	0.999920	
Tl 190.801	3	Lin Thru 0	0.0	1515	0.00000	0.999998	
V 292.402	3	Lin Thru 0	0.0	63660	0.00000	0.999956	
Zn 206.200	3	Lin Thru 0	0.0	21550	0.00000	0.999999	
Cd 226.502	3	Lin Thru 0	0.0	39400	0.00000	0.999985	
Ti 334.940	3	Lin Thru 0	0.0	424900	0.00000	0.999862	
Ca 227.546	3	Lin Thru 0	0.0	178.3	0.00000	0.999917	
Na 589.592	3	Lin Thru 0	0.0	3071	0.00000	1.000000	
K 766.490	3	Lin Thru 0	0.0	1259	0.00000	1.000000	

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Sequence No.: 5 **Autosampler Location: 3**
Sample ID: ICV **Date Collected: 5/18/2011 7:52:15 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1018338.8	97.870	%	0.4529				0.46%
Lu 261.542	1135902.4	99.28	%	0.247				0.25%
Ag 328.068†	132582.0	1.2300	mg/L	0.00986	1.2300	mg/L	0.00986	0.80%
QC value within limits for Ag 328.068 Recovery = 98.40%								
Al 308.215†	183198.0	9.9797	mg/L	0.07756	9.9797	mg/L	0.07756	0.78%
QC value within limits for Al 308.215 Recovery = 99.80%								
As 188.979†	626.9	0.48031	mg/L	0.004277	0.48031	mg/L	0.004277	0.89%

QC value within limits for As 188.979 Recovery = 96.06%

Ba 233.527†	665669.1	10.124 mg/L	0.0053	10.124 mg/L	0.0053	0.05%
QC value within limits for Ba 233.527 Recovery = 101.24%						
Be 313.107†	301731.8	0.24720 mg/L	0.000295	0.24720 mg/L	0.000295	0.12%
QC value within limits for Be 313.107 Recovery = 98.88%						
Co 228.616†	37726.8	2.5935 mg/L	0.03344	2.5935 mg/L	0.03344	1.29%
QC value within limits for Co 228.616 Recovery = 103.74%						
Cr 267.716†	44069.2	1.0291 mg/L	0.00666	1.0291 mg/L	0.00666	0.65%
QC value within limits for Cr 267.716 Recovery = 102.91%						
Cu 324.752†	219707.9	1.2211 mg/L	0.01169	1.2211 mg/L	0.01169	0.96%
QC value within limits for Cu 324.752 Recovery = 97.69%						
Fe 273.955†	97406.1	5.1325 mg/L	0.05942	5.1325 mg/L	0.05942	1.16%
QC value within limits for Fe 273.955 Recovery = 102.65%						
Mg 279.077†	353449.5	24.977 mg/L	0.0534	24.977 mg/L	0.0534	0.21%
QC value within limits for Mg 279.077 Recovery = 99.91%						
Mn 257.610†	921704.4	2.4987 mg/L	0.00296	2.4987 mg/L	0.00296	0.12%
QC value within limits for Mn 257.610 Recovery = 99.95%						
Ni 231.604†	41514.0	2.5638 mg/L	0.01716	2.5638 mg/L	0.01716	0.67%
QC value within limits for Ni 231.604 Recovery = 102.55%						
Pb 220.353†	2633.3	0.49840 mg/L	0.002088	0.49840 mg/L	0.002088	0.42%
QC value within limits for Pb 220.353 Recovery = 99.68%						
Sb 206.836†	998.2	0.48354 mg/L	0.004025	0.48354 mg/L	0.004025	0.83%
QC value within limits for Sb 206.836 Recovery = 96.71%						
Se 196.026†	397.3	0.49228 mg/L	0.004091	0.49228 mg/L	0.004091	0.83%
QC value within limits for Se 196.026 Recovery = 98.46%						
Tl 190.801†	750.6	0.50147 mg/L	0.001191	0.50147 mg/L	0.001191	0.24%
QC value within limits for Tl 190.801 Recovery = 100.29%						
V 292.402†	157787.1	2.4799 mg/L	0.01809	2.4799 mg/L	0.01809	0.73%
QC value within limits for V 292.402 Recovery = 99.20%						
Zn 206.200†	54889.5	2.5504 mg/L	0.02563	2.5504 mg/L	0.02563	1.00%
QC value within limits for Zn 206.200 Recovery = 102.01%						
Cd 226.502†	9823.2	0.24889 mg/L	0.002407	0.24889 mg/L	0.002407	0.97%
QC value within limits for Cd 226.502 Recovery = 99.55%						
Ti 334.940†	209541.2	0.49280 mg/L	0.005088	0.49280 mg/L	0.005088	1.03%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Ca 227.546†	4474.0	25.209 mg/L	0.1004	25.209 mg/L	0.1004	0.40%
QC value within limits for Ca 227.546 Recovery = 100.84%						
Na 589.592	79096.3	25.753 mg/L	0.1288	25.753 mg/L	0.1288	0.50%
QC value within limits for Na 589.592 Recovery = 103.01%						
K 766.490	32271.6	25.623 mg/L	0.1982	25.623 mg/L	0.1982	0.77%
QC value within limits for K 766.490 Recovery = 102.49%						

All analyte(s) passed QC.

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Sequence No.: 6 **Autosampler Location: 4**
Sample ID: ICB **Date Collected: 5/18/2011 7:55:56 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1036101.8	99.577	%	0.4494				0.45%
Lu 261.542	1138017.2	99.47	%	0.482				0.48%
Ag 328.068†	139.2	0.00129	mg/L	0.000546	0.00129	mg/L	0.000546	42.36%
Al 308.215†	142.8	0.00779	mg/L	0.001968	0.00779	mg/L	0.001968	25.25%
As 188.979†	5.1	0.00384	mg/L	0.002339	0.00384	mg/L	0.002339	60.94%
Ba 233.527†	184.3	0.00280	mg/L	0.001530	0.00280	mg/L	0.001530	54.59%
Be 313.107†	94.9	0.00008	mg/L	0.000065	0.00008	mg/L	0.000065	83.65%
Co 228.616†	14.8	0.00102	mg/L	0.000450	0.00102	mg/L	0.000450	44.23%
Cr 267.716†	11.2	0.00026	mg/L	0.000146	0.00026	mg/L	0.000146	55.62%
Cu 324.752†	136.2	0.00076	mg/L	0.000251	0.00076	mg/L	0.000251	33.16%
Fe 273.955†	61.8	0.00323	mg/L	0.000897	0.00323	mg/L	0.000897	27.75%
Mg 279.077†	145.4	0.01028	mg/L	0.003767	0.01028	mg/L	0.003767	36.66%
Mn 257.610†	343.3	0.00093	mg/L	0.000424	0.00093	mg/L	0.000424	45.60%
Ni 231.604†	11.7	0.00072	mg/L	0.000209	0.00072	mg/L	0.000209	28.89%
Pb 220.353†	-1.1	-0.00022	mg/L	0.001030	-0.00022	mg/L	0.001030	477.36%
Sb 206.836†	12.8	0.00636	mg/L	0.002172	0.00636	mg/L	0.002172	34.15%
Se 196.026†	-5.1	-0.00630	mg/L	0.006942	-0.00630	mg/L	0.006942	110.17%

Tl 190.801†	-1.1	-0.00070 mg/L	0.001585	-0.00070 mg/L	0.001585	226.54%
V 292.402†	57.4	0.00090 mg/L	0.000865	0.00090 mg/L	0.000865	95.96%
Zn 206.200†	32.5	0.00151 mg/L	0.000494	0.00151 mg/L	0.000494	32.74%
Cd 226.502†	0.7	0.00002 mg/L	0.000078	0.00002 mg/L	0.000078	456.95%
Ti 334.940†	135.0	0.00032 mg/L	0.000009	0.00032 mg/L	0.000009	2.82%
Ca 227.546†	14.8	0.08294 mg/L	0.045713	0.08294 mg/L	0.045713	55.11%
Na 589.592	97.4	0.03171 mg/L	0.018641	0.03171 mg/L	0.018641	58.79%
K 766.490	24.7	0.01960 mg/L	0.069360	0.01960 mg/L	0.069360	353.87%

Sequence No.: 7 **Autosampler Location: 2**
Sample ID: LLICV **Date Collected: 5/18/2011 7:59:35 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: LLICV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1043545.7	100.29	%	0.794				0.79%
Lu 261.542	1149611.0	100.5	%	0.59				0.59%
Ag 328.068†	3558.5	0.03300	mg/L	0.000509	0.03300	mg/L	0.000509	1.54%
QC value within limits for Ag 328.068 Recovery = 110.01%								
Al 308.215†	3751.4	0.20432	mg/L	0.000683	0.20432	mg/L	0.000683	0.33%
QC value within limits for Al 308.215 Recovery = 102.16%								
As 188.979†	27.6	0.02098	mg/L	0.003205	0.02098	mg/L	0.003205	15.28%
QC value within limits for As 188.979 Recovery = 104.90%								
Ba 233.527†	14461.8	0.21994	mg/L	0.001244	0.21994	mg/L	0.001244	0.57%
QC value within limits for Ba 233.527 Recovery = 109.97%								
Be 313.107†	6274.8	0.00516	mg/L	0.000099	0.00516	mg/L	0.000099	1.92%
QC value within limits for Be 313.107 Recovery = 103.20%								
Co 228.616†	846.1	0.05815	mg/L	0.000318	0.05815	mg/L	0.000318	0.55%
QC value within limits for Co 228.616 Recovery = 116.30%								
Cr 267.716†	925.2	0.02161	mg/L	0.000847	0.02161	mg/L	0.000847	3.92%
QC value within limits for Cr 267.716 Recovery = 108.03%								
Cu 324.752†	5376.3	0.02988	mg/L	0.000357	0.02988	mg/L	0.000357	1.19%
QC value within limits for Cu 324.752 Recovery = 99.61%								
Fe 273.955†	4253.5	0.22237	mg/L	0.002209	0.22237	mg/L	0.002209	0.99%
QC value within limits for Fe 273.955 Recovery = 111.19%								
Mg 279.077†	8058.6	0.56948	mg/L	0.002469	0.56948	mg/L	0.002469	0.43%
QC value within limits for Mg 279.077 Recovery = 113.90%								
Mn 257.610†	20898.3	0.05665	mg/L	0.000399	0.05665	mg/L	0.000399	0.70%
QC value within limits for Mn 257.610 Recovery = 113.31%								
Ni 231.604†	930.4	0.05745	mg/L	0.000456	0.05745	mg/L	0.000456	0.79%
QC value within limits for Ni 231.604 Recovery = 114.91%								
Pb 220.353†	49.9	0.00945	mg/L	0.001083	0.00945	mg/L	0.001083	11.47%
QC value within limits for Pb 220.353 Recovery = 94.47%								
Sb 206.836†	43.0	0.02114	mg/L	0.001646	0.02114	mg/L	0.001646	7.79%
QC value within limits for Sb 206.836 Recovery = 105.71%								
Se 196.026†	18.1	0.02242	mg/L	0.004258	0.02242	mg/L	0.004258	19.00%
QC value within limits for Se 196.026 Recovery = 74.72%								
Tl 190.801†	29.2	0.01948	mg/L	0.003599	0.01948	mg/L	0.003599	18.48%
QC value within limits for Tl 190.801 Recovery = 97.41%								
V 292.402†	3413.3	0.05364	mg/L	0.000546	0.05364	mg/L	0.000546	1.02%
QC value within limits for V 292.402 Recovery = 107.29%								
Zn 206.200†	1242.9	0.05774	mg/L	0.000707	0.05774	mg/L	0.000707	1.22%
QC value within limits for Zn 206.200 Recovery = 115.49%								
Cd 226.502†	213.4	0.00540	mg/L	0.000053	0.00540	mg/L	0.000053	0.98%
QC value within limits for Cd 226.502 Recovery = 107.93%								
Ti 334.940†	8472.6	0.01993	mg/L	0.000055	0.01993	mg/L	0.000055	0.28%
QC value within limits for Ti 334.940 Recovery = 99.67%								
Ca 227.546†	150.9	0.85478	mg/L	0.049539	0.85478	mg/L	0.049539	5.80%
QC value within limits for Ca 227.546 Recovery = 106.85%								
Na 589.592	3463.4	1.1277	mg/L	0.01914	1.1277	mg/L	0.01914	1.70%
QC value within limits for Na 589.592 Recovery = 112.77%								
K 766.490	1384.6	1.0993	mg/L	0.07860	1.0993	mg/L	0.07860	7.15%
QC value within limits for K 766.490 Recovery = 109.93%								

All analyte(s) passed QC.

Sequence No.: 8 **Autosampler Location:** 5
Sample ID: ICSA **Date Collected:** 5/18/2011 8:03:13 AM
Analyst: **Data Type:** Original
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	945647.1	90.884	%	0.7223				0.79%
Lu 261.542	1054259.2	92.15	%	0.669				0.73%
Ag 328.068†	-1.5	-0.00002	mg/L	0.000309	-0.00002	mg/L	0.000309	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	9300571.0	508.17	mg/L	7.219	508.17	mg/L	7.219	1.42%
QC value within limits for Al 308.215 Recovery = 101.63%								
As 188.979†	-10.5	-0.00538	mg/L	0.005839	-0.00538	mg/L	0.005839	108.58%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	83.9	0.00127	mg/L	0.000027	0.00127	mg/L	0.000027	2.17%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-107.6	-0.00010	mg/L	0.000017	-0.00010	mg/L	0.000017	16.97%
QC value within limits for Be 313.107 Recovery = Not calculated								
Co 228.616†	65.1	-0.00212	mg/L	0.000523	-0.00212	mg/L	0.000523	24.72%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	142.3	0.00114	mg/L	0.000151	0.00114	mg/L	0.000151	13.27%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	-1776.2	-0.00235	mg/L	0.000148	-0.00235	mg/L	0.000148	6.29%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 273.955†	3714660.8	192.71	mg/L	0.327	192.71	mg/L	0.327	0.17%
QC value within limits for Fe 273.955 Recovery = 96.35%								
Mg 279.077†	6987998.6	493.58	mg/L	8.539	493.58	mg/L	8.539	1.73%
QC value within limits for Mg 279.077 Recovery = 98.72%								
Mn 257.610†	-514.4	-0.01756	mg/L	0.000214	-0.01756	mg/L	0.000214	1.22%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Ni 231.604†	-0.6	-0.00280	mg/L	0.000556	-0.00280	mg/L	0.000556	19.89%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-121.2	-0.00276	mg/L	0.000773	-0.00276	mg/L	0.000773	28.02%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	85.4	0.00099	mg/L	0.004108	0.00099	mg/L	0.004108	414.17%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-52.2	-0.00201	mg/L	0.004962	-0.00201	mg/L	0.004962	246.31%
QC value within limits for Se 196.026 Recovery = Not calculated								
Tl 190.801†	-19.8	-0.00273	mg/L	0.001640	-0.00273	mg/L	0.001640	60.15%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	-642.2	0.00238	mg/L	0.000340	0.00238	mg/L	0.000340	14.28%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200†	59.3	0.00276	mg/L	0.000381	0.00276	mg/L	0.000381	13.79%
QC value within limits for Zn 206.200 Recovery = Not calculated								
Cd 226.502†	705.6	0.00249	mg/L	0.000455	0.00249	mg/L	0.000455	18.24%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Ti 334.940†	-3262.9	-0.00879	mg/L	0.000170	-0.00879	mg/L	0.000170	1.94%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Ca 227.546†	91812.9	525.43	mg/L	1.606	525.43	mg/L	1.606	0.31%
QC value within limits for Ca 227.546 Recovery = 105.09%								
Na 589.592	242.5	0.07895	mg/L	0.023328	0.07895	mg/L	0.023328	29.55%
QC value within limits for Na 589.592 Recovery = Not calculated								
K 766.490	95.1	0.07555	mg/L	0.056447	0.07555	mg/L	0.056447	74.72%
QC value within limits for K 766.490 Recovery = Not calculated								

All analyte(s) passed QC.

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Sequence No.: 9 **Autosampler Location:** 6
Sample ID: ICSAB **Date Collected:** 5/18/2011 8:06:59 AM
Analyst: **Data Type:** Original
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD

Y 360.073	923362.1	88.742 %	0.9008			1.02%
Lu 261.542	1036615.7	90.61 %	0.687			0.76%
Ag 328.068†	23557.1	0.21858 mg/L	0.000800	0.21858 mg/L	0.000800	0.37%
QC value within limits for Ag 328.068 Recovery = 109.29%						
Al 308.215†	9574340.3	523.12 mg/L	5.049	523.12 mg/L	5.049	0.97%
QC value within limits for Al 308.215 Recovery = 104.62%						
As 188.979†	130.3	0.10381 mg/L	0.004398	0.10381 mg/L	0.004398	4.24%
QC value within limits for As 188.979 Recovery = 103.81%						
Ba 233.527†	34221.8	0.52085 mg/L	0.002595	0.52085 mg/L	0.002595	0.50%
QC value within limits for Ba 233.527 Recovery = 104.17%						
Be 313.107†	617004.6	0.50335 mg/L	0.003736	0.50335 mg/L	0.003736	0.74%
QC value within limits for Be 313.107 Recovery = 100.67%						
Co 228.616†	7188.2	0.48749 mg/L	0.005747	0.48749 mg/L	0.005747	1.18%
QC value within limits for Co 228.616 Recovery = 97.50%						
Cr 267.716†	21730.6	0.50522 mg/L	0.000979	0.50522 mg/L	0.000979	0.19%
QC value within limits for Cr 267.716 Recovery = 101.04%						
Cu 324.752†	96339.2	0.54293 mg/L	0.003191	0.54293 mg/L	0.003191	0.59%
QC value within limits for Cu 324.752 Recovery = 108.59%						
Fe 273.955†	3780641.1	196.15 mg/L	0.889	196.15 mg/L	0.889	0.45%
QC value within limits for Fe 273.955 Recovery = 98.07%						
Mg 279.077†	7118499.9	502.80 mg/L	4.970	502.80 mg/L	4.970	0.99%
QC value within limits for Mg 279.077 Recovery = 100.56%						
Mn 257.610†	185314.3	0.48605 mg/L	0.003864	0.48605 mg/L	0.003864	0.80%
QC value within limits for Mn 257.610 Recovery = 97.21%						
Ni 231.604†	15640.8	0.96326 mg/L	0.005751	0.96326 mg/L	0.005751	0.60%
QC value within limits for Ni 231.604 Recovery = 96.33%						
Pb 220.353†	2427.2	0.47958 mg/L	0.005276	0.47958 mg/L	0.005276	1.10%
QC value within limits for Pb 220.353 Recovery = 95.92%						
Sb 206.836†	1287.5	0.59137 mg/L	0.001290	0.59137 mg/L	0.001290	0.22%
QC value within limits for Sb 206.836 Recovery = 98.56%						
Se 196.026†	344.1	0.48976 mg/L	0.004046	0.48976 mg/L	0.004046	0.83%
QC value within limits for Se 196.026 Recovery = 97.95%						
Tl 190.801†	122.4	0.09169 mg/L	0.002981	0.09169 mg/L	0.002981	3.25%
QC value within limits for Tl 190.801 Recovery = 91.69%						
V 292.402†	31616.9	0.51004 mg/L	0.001608	0.51004 mg/L	0.001608	0.32%
QC value within limits for V 292.402 Recovery = 102.01%						
Zn 206.200†	20746.6	0.96429 mg/L	0.011402	0.96429 mg/L	0.011402	1.18%
QC value within limits for Zn 206.200 Recovery = 96.43%						
Cd 226.502†	38815.3	0.96956 mg/L	0.005711	0.96956 mg/L	0.005711	0.59%
QC value within limits for Cd 226.502 Recovery = 96.96%						
Ti 334.940†	-3308.2	-0.00902 mg/L	0.000137	-0.00902 mg/L	0.000137	1.52%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Ca 227.546†	93281.4	533.81 mg/L	3.506	533.81 mg/L	3.506	0.66%
QC value within limits for Ca 227.546 Recovery = 106.76%						
Na 589.592	82687.5	26.922 mg/L	0.4796	26.922 mg/L	0.4796	1.78%
QC value within limits for Na 589.592 Recovery = 107.69%						
K 766.490	34943.1	27.744 mg/L	0.4576	27.744 mg/L	0.4576	1.65%
QC value within limits for K 766.490 Recovery = 110.98%						

All analyte(s) passed QC.

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Sequence No.: 10 **Autosampler Location: 38**
Sample ID: MB-59228~PBW **Date Collected: 5/18/2011 8:10:44 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: MB-59228~PBW

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1053470.9	101.25	%	1.529				1.51%
Lu 261.542	1155513.5	101.0	%	1.54				1.52%
Ag 328.068†	109.0	0.00101	mg/L	0.000069	0.00101	mg/L	0.000069	6.86%
Al 308.215†	162.7	0.00889	mg/L	0.005264	0.00889	mg/L	0.005264	59.18%
As 188.979†	0.8	0.00059	mg/L	0.001937	0.00059	mg/L	0.001937	331.03%
Ba 233.527†	3.8	0.00006	mg/L	0.000066	0.00006	mg/L	0.000066	116.06%
Be 313.107†	2.2	0.00000	mg/L	0.000047	0.00000	mg/L	0.000047	>999.9%
Co 228.616†	3.3	0.00023	mg/L	0.000252	0.00023	mg/L	0.000252	110.01%
Cr 267.716†	-4.3	-0.00010	mg/L	0.000146	-0.00010	mg/L	0.000146	146.94%
Cu 324.752†	166.1	0.00092	mg/L	0.000084	0.00092	mg/L	0.000084	9.15%

Fe 273.955†	180.3	0.00935	mg/L	0.001259	0.00935	mg/L	0.001259 13.47%
Mg 279.077†	179.7	0.01269	mg/L	0.004973	0.01269	mg/L	0.004973 39.18%
Mn 257.610†	9.4	0.00003	mg/L	0.000026	0.00003	mg/L	0.000026 102.00%
Ni 231.604†	-2.3	-0.00014	mg/L	0.000410	-0.00014	mg/L	0.000410 285.40%
Pb 220.353†	-1.8	-0.00033	mg/L	0.001126	-0.00033	mg/L	0.001126 339.22%
Sb 206.836†	6.1	0.00304	mg/L	0.003761	0.00304	mg/L	0.003761 123.83%
Se 196.026†	-4.7	-0.00583	mg/L	0.004478	-0.00583	mg/L	0.004478 76.88%
Tl 190.801†	-0.1	-0.00010	mg/L	0.000683	-0.00010	mg/L	0.000683 699.52%
V 292.402†	-16.4	-0.00026	mg/L	0.000238	-0.00026	mg/L	0.000238 92.56%
Zn 206.200†	193.2	0.00897	mg/L	0.000245	0.00897	mg/L	0.000245 2.73%
Cd 226.502†	5.8	0.00015	mg/L	0.000050	0.00015	mg/L	0.000050 33.79%
Ti 334.940†	-12.6	-0.00003	mg/L	0.000120	-0.00003	mg/L	0.000120 403.94%
Ca 227.546†	2.1	0.01234	mg/L	0.009965	0.01234	mg/L	0.009965 80.75%
Na 589.592	-57.3	-0.01867	mg/L	0.006707	-0.01867	mg/L	0.006707 35.92%
K 766.490	7.9	0.00631	mg/L	0.030400	0.00631	mg/L	0.030400 482.14%

Sequence No.: 11 **Autosampler Location: 39**
Sample ID: LCS-59228~LCS **Date Collected: 5/18/2011 8:14:23 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: LCS-59228~LCS

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1039377.5	99.892	%	0.2117				0.21%
Lu 261.542	1155211.2	101.0	%	0.28				0.28%
Ag 328.068†	120033.6	1.1135	mg/L	0.00819	1.1135	mg/L	0.00819	0.74%
Al 308.215†	164187.9	8.9443	mg/L	0.03823	8.9443	mg/L	0.03823	0.43%
As 188.979†	603.7	0.46167	mg/L	0.001356	0.46167	mg/L	0.001356	0.29%
Ba 233.527†	601309.8	9.1450	mg/L	0.05086	9.1450	mg/L	0.05086	0.56%
Be 313.107†	273464.9	0.22317	mg/L	0.001778	0.22317	mg/L	0.001778	0.80%
Co 228.616†	33005.3	2.2694	mg/L	0.00854	2.2694	mg/L	0.00854	0.38%
Cr 267.716†	38703.2	0.90382	mg/L	0.006951	0.90382	mg/L	0.006951	0.77%
Cu 324.752†	194363.2	1.0802	mg/L	0.00696	1.0802	mg/L	0.00696	0.64%
Fe 273.955†	87378.5	4.6036	mg/L	0.02424	4.6036	mg/L	0.02424	0.53%
Mg 279.077†	312607.6	22.091	mg/L	0.1395	22.091	mg/L	0.1395	0.63%
Mn 257.610†	828544.4	2.2461	mg/L	0.01352	2.2461	mg/L	0.01352	0.60%
Ni 231.604†	37507.6	2.3165	mg/L	0.02025	2.3165	mg/L	0.02025	0.87%
Pb 220.353†	2449.7	0.46340	mg/L	0.000688	0.46340	mg/L	0.000688	0.15%
Sb 206.836†	904.9	0.43928	mg/L	0.001034	0.43928	mg/L	0.001034	0.24%
Se 196.026†	368.5	0.45660	mg/L	0.009619	0.45660	mg/L	0.009619	2.11%
Tl 190.801†	701.4	0.46516	mg/L	0.001247	0.46516	mg/L	0.001247	0.27%
V 292.402†	140705.7	2.2118	mg/L	0.01533	2.2118	mg/L	0.01533	0.69%
Zn 206.200†	48188.1	2.2390	mg/L	0.01193	2.2390	mg/L	0.01193	0.53%
Cd 226.502†	8943.5	0.22665	mg/L	0.000822	0.22665	mg/L	0.000822	0.36%
Ti 334.940†	82.6	-0.00011	mg/L	0.000168	-0.00011	mg/L	0.000168	159.54%
Ca 227.546†	3969.6	22.370	mg/L	0.0242	22.370	mg/L	0.0242	0.11%
Na 589.592	70380.2	22.915	mg/L	0.3684	22.915	mg/L	0.3684	1.61%
K 766.490	28656.1	22.752	mg/L	0.4140	22.752	mg/L	0.4140	1.82%

Sequence No.: 12 **Autosampler Location: 40**
Sample ID: K0813-01B~016A **Date Collected: 5/18/2011 8:18:03 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0813-01B~016A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1037064.2	99.670	%	0.7748				0.78%
Lu 261.542	1142348.3	99.85	%	0.973				0.97%
Ag 328.068†	45.2	0.00042	mg/L	0.000464	0.00042	mg/L	0.000464	110.96%
Al 308.215†	922.2	0.05038	mg/L	0.002074	0.05038	mg/L	0.002074	4.12%
As 188.979†	1.5	0.00355	mg/L	0.002447	0.00355	mg/L	0.002447	68.90%
Ba 233.527†	13785.7	0.20961	mg/L	0.002617	0.20961	mg/L	0.002617	1.25%
Be 313.107†	1234.5	0.00101	mg/L	0.000013	0.00101	mg/L	0.000013	1.34%

Co 228.616†	54.0	0.00294	mg/L	0.000177	0.00294	mg/L	0.000177	6.02%
Cr 267.716†	166.0	0.00288	mg/L	0.000067	0.00288	mg/L	0.000067	2.34%
Cu 324.752†	-56.1	0.00068	mg/L	0.000034	0.00068	mg/L	0.000034	5.03%
Fe 273.955†	434832.0	22.558	mg/L	0.0399	22.558	mg/L	0.0399	0.18%
Mg 279.077†	279893.7	19.793	mg/L	0.1811	19.793	mg/L	0.1811	0.91%
Mn 257.610†	1733581.7	4.7005	mg/L	0.00854	4.7005	mg/L	0.00854	0.18%
Ni 231.604†	187.1	0.01134	mg/L	0.000437	0.01134	mg/L	0.000437	3.85%
Pb 220.353†	3.3	0.00032	mg/L	0.001640	0.00032	mg/L	0.001640	516.46%
Sb 206.836†	4.6	0.00108	mg/L	0.003335	0.00108	mg/L	0.003335	307.93%
Se 196.026†	1.7	0.00400	mg/L	0.007563	0.00400	mg/L	0.007563	189.12%
Tl 190.801†	-0.4	0.00084	mg/L	0.004622	0.00084	mg/L	0.004622	552.16%
V 292.402†	5.9	0.00194	mg/L	0.000152	0.00194	mg/L	0.000152	7.84%
Zn 206.200†	260.5	0.01210	mg/L	0.000163	0.01210	mg/L	0.000163	1.35%
Cd 226.502†	76.4	0.00013	mg/L	0.000069	0.00013	mg/L	0.000069	51.36%
Ti 334.940†	161.7	0.00118	mg/L	0.000090	0.00118	mg/L	0.000090	7.60%
Ca 227.546†	15500.0	88.146	mg/L	0.1842	88.146	mg/L	0.1842	0.21%
Na 589.592	512248.6	166.78	mg/L	1.425	166.78	mg/L	1.425	0.85%
K 766.490	63223.2	50.198	mg/L	0.5786	50.198	mg/L	0.5786	1.15%

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Sequence No.: 13 **Autosampler Location: 41**
Sample ID: K0814-01B~016A **Date Collected: 5/18/2011 8:21:44 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0814-01B~016A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1039378.6	99.892	%	1.4554				1.46%
Lu 261.542	1148155.8	100.4	%	1.39				1.39%
Ag 328.068†	79.3	0.00073	mg/L	0.000222	0.00073	mg/L	0.000222	30.21%
Al 308.215†	744.4	0.04067	mg/L	0.008200	0.04067	mg/L	0.008200	20.16%
As 188.979†	-0.0	0.00235	mg/L	0.002865	0.00235	mg/L	0.002865	121.68%
Ba 233.527†	13624.5	0.20715	mg/L	0.001548	0.20715	mg/L	0.001548	0.75%
Be 313.107†	1229.4	0.00100	mg/L	0.000010	0.00100	mg/L	0.000010	0.98%
Co 228.616†	49.3	0.00262	mg/L	0.000209	0.00262	mg/L	0.000209	7.95%
Cr 267.716†	153.0	0.00258	mg/L	0.000102	0.00258	mg/L	0.000102	3.96%
Cu 324.752†	339.1	0.00287	mg/L	0.000205	0.00287	mg/L	0.000205	7.16%
Fe 273.955†	430637.4	22.340	mg/L	0.1374	22.340	mg/L	0.1374	0.61%
Mg 279.077†	277499.4	19.623	mg/L	0.1535	19.623	mg/L	0.1535	0.78%
Mn 257.610†	1726748.5	4.6820	mg/L	0.03820	4.6820	mg/L	0.03820	0.82%
Ni 231.604†	192.3	0.01167	mg/L	0.000253	0.01167	mg/L	0.000253	2.17%
Pb 220.353†	1.8	0.00004	mg/L	0.000351	0.00004	mg/L	0.000351	848.43%
Sb 206.836†	9.9	0.00373	mg/L	0.002308	0.00373	mg/L	0.002308	61.96%
Se 196.026†	-1.4	0.00009	mg/L	0.001104	0.00009	mg/L	0.001104	>999.9%
Tl 190.801†	3.4	0.00329	mg/L	0.000321	0.00329	mg/L	0.000321	9.76%
V 292.402†	-10.2	0.00167	mg/L	0.000137	0.00167	mg/L	0.000137	8.20%
Zn 206.200†	806.0	0.03742	mg/L	0.000542	0.03742	mg/L	0.000542	1.45%
Cd 226.502†	67.6	-0.00007	mg/L	0.000091	-0.00007	mg/L	0.000091	127.06%
Ti 334.940†	121.8	0.00108	mg/L	0.000135	0.00108	mg/L	0.000135	12.49%
Ca 227.546†	15395.5	87.548	mg/L	0.7512	87.548	mg/L	0.7512	0.86%
Na 589.592	504738.7	164.34	mg/L	0.477	164.34	mg/L	0.477	0.29%
K 766.490	62462.4	49.594	mg/L	0.1548	49.594	mg/L	0.1548	0.31%

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Sequence No.: 14 **Autosampler Location: 42**
Sample ID: K0834-01B~SL-MW-12 **Date Collected: 5/18/2011 8:25:25 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0834-01B~SL-MW-12

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1038377.8	99.796	%	0.4323				0.43%
Lu 261.542	1148482.6	100.4	%	0.52				0.51%
Ag 328.068†	49.4	0.00046	mg/L	0.000605	0.00046	mg/L	0.000605	132.37%
Al 308.215†	12760.3	0.69719	mg/L	0.012597	0.69719	mg/L	0.012597	1.81%

As 188.979†	-11.6	-0.00252	mg/L	0.003188	-0.00252	mg/L	0.003188 126.72%
Ba 233.527†	5084.7	0.07731	mg/L	0.001282	0.07731	mg/L	0.001282 1.66%
Be 313.107†	68.3	0.00007	mg/L	0.000022	0.00007	mg/L	0.000022 32.52%
Co 228.616†	25.5	0.00162	mg/L	0.000222	0.00162	mg/L	0.000222 13.73%
Cr 267.716†	46031.9	1.0747	mg/L	0.00942	1.0747	mg/L	0.00942 0.88%
Cu 324.752†	3427.7	0.01939	mg/L	0.000351	0.01939	mg/L	0.000351 1.81%
Fe 273.955†	115979.4	6.0213	mg/L	0.06970	6.0213	mg/L	0.06970 1.16%
Mg 279.077†	36626.9	2.5889	mg/L	0.02976	2.5889	mg/L	0.02976 1.15%
Mn 257.610†	138418.5	0.37526	mg/L	0.003262	0.37526	mg/L	0.003262 0.87%
Ni 231.604†	504.9	0.03114	mg/L	0.000557	0.03114	mg/L	0.000557 1.79%
Pb 220.353†	30.0	0.00570	mg/L	0.001596	0.00570	mg/L	0.001596 28.02%
Sb 206.836†	41.9	0.00113	mg/L	0.003235	0.00113	mg/L	0.003235 285.69%
Se 196.026†	-4.9	-0.00464	mg/L	0.002921	-0.00464	mg/L	0.002921 62.90%
Tl 190.801†	-5.6	-0.00367	mg/L	0.001494	-0.00367	mg/L	0.001494 40.67%
V 292.402†	33.8	0.00265	mg/L	0.000346	0.00265	mg/L	0.000346 13.04%
Zn 206.200†	798.5	0.04001	mg/L	0.000838	0.04001	mg/L	0.000838 2.09%
Cd 226.502†	81.6	0.00159	mg/L	0.000055	0.00159	mg/L	0.000055 3.49%
Ti 334.940†	2537.2	0.00600	mg/L	0.000087	0.00600	mg/L	0.000087 1.45%
Ca 227.546†	2597.4	14.892	mg/L	0.0346	14.892	mg/L	0.0346 0.23%
Na 589.592	128353.7	41.791	mg/L	0.2152	41.791	mg/L	0.2152 0.51%
K 766.490	3968.7	3.1511	mg/L	0.05555	3.1511	mg/L	0.05555 1.76%

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Sequence No.: 15 **Autosampler Location: 43**
Sample ID: K0834-02B~SL-MW-62 **Date Collected: 5/18/2011 8:29:06 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0834-02B~SL-MW-62

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1076108.3	103.42	%	0.640				0.62%
Lu 261.542	1184721.6	103.6	%	0.70				0.68%
Ag 328.068†	70.2	0.00065	mg/L	0.000164	0.00065	mg/L	0.000164	25.14%
Al 308.215†	33083.8	1.8076	mg/L	0.02299	1.8076	mg/L	0.02299	1.27%
As 188.979†	-14.0	-0.00110	mg/L	0.002093	-0.00110	mg/L	0.002093	189.52%
Ba 233.527†	5076.2	0.07718	mg/L	0.000649	0.07718	mg/L	0.000649	0.84%
Be 313.107†	8.3	0.00007	mg/L	0.000032	0.00007	mg/L	0.000032	47.58%
Co 228.616†	37.5	0.00237	mg/L	0.000265	0.00237	mg/L	0.000265	11.22%
Cr 267.716†	70863.5	1.6545	mg/L	0.01286	1.6545	mg/L	0.01286	0.78%
Cu 324.752†	5209.2	0.02945	mg/L	0.000179	0.02945	mg/L	0.000179	0.61%
Fe 273.955†	162356.7	8.4298	mg/L	0.02772	8.4298	mg/L	0.02772	0.33%
Mg 279.077†	36539.3	2.5827	mg/L	0.02961	2.5827	mg/L	0.02961	1.15%
Mn 257.610†	136760.2	0.37075	mg/L	0.001446	0.37075	mg/L	0.001446	0.39%
Ni 231.604†	897.1	0.05533	mg/L	0.000333	0.05533	mg/L	0.000333	0.60%
Pb 220.353†	40.9	0.00781	mg/L	0.000596	0.00781	mg/L	0.000596	7.63%
Sb 206.836†	59.0	-0.00105	mg/L	0.000633	-0.00105	mg/L	0.000633	60.18%
Se 196.026†	-5.6	-0.00462	mg/L	0.003441	-0.00462	mg/L	0.003441	74.50%
Tl 190.801†	-1.5	-0.00092	mg/L	0.001638	-0.00092	mg/L	0.001638	178.74%
V 292.402†	157.4	0.00565	mg/L	0.000485	0.00565	mg/L	0.000485	8.59%
Zn 206.200†	950.1	0.04864	mg/L	0.000662	0.04864	mg/L	0.000662	1.36%
Cd 226.502†	111.7	0.00216	mg/L	0.000047	0.00216	mg/L	0.000047	2.20%
Ti 334.940†	13101.7	0.03080	mg/L	0.000654	0.03080	mg/L	0.000654	2.12%
Ca 227.546†	2534.0	14.667	mg/L	0.1165	14.667	mg/L	0.1165	0.79%
Na 589.592	127749.6	41.594	mg/L	0.5581	41.594	mg/L	0.5581	1.34%
K 766.490	4207.2	3.3405	mg/L	0.01182	3.3405	mg/L	0.01182	0.35%

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Sequence No.: 16 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 5/18/2011 8:32:48 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1042738.5	100.21	%	0.484				0.48%

Lu 261.542	1152322.9	100.7 %	0.52			0.52%
Ag 328.068†	133490.2	1.2384 mg/L	0.01555	1.2384 mg/L	0.01555	1.26%
QC value within limits for Ag 328.068 Recovery = 99.07%						
Al 308.215†	182729.8	9.9537 mg/L	0.10194	9.9537 mg/L	0.10194	1.02%
QC value within limits for Al 308.215 Recovery = 99.54%						
As 188.979†	624.5	0.47857 mg/L	0.005174	0.47857 mg/L	0.005174	1.08%
QC value within limits for As 188.979 Recovery = 95.71%						
Ba 233.527†	666716.4	10.140 mg/L	0.0083	10.140 mg/L	0.0083	0.08%
QC value within limits for Ba 233.527 Recovery = 101.40%						
Be 313.107†	298879.1	0.24486 mg/L	0.001501	0.24486 mg/L	0.001501	0.61%
QC value within limits for Be 313.107 Recovery = 97.94%						
Co 228.616†	36923.5	2.5382 mg/L	0.02767	2.5382 mg/L	0.02767	1.09%
QC value within limits for Co 228.616 Recovery = 101.53%						
Cr 267.716†	44476.8	1.0387 mg/L	0.01252	1.0387 mg/L	0.01252	1.20%
QC value within limits for Cr 267.716 Recovery = 103.87%						
Cu 324.752†	218510.9	1.2144 mg/L	0.01276	1.2144 mg/L	0.01276	1.05%
QC value within limits for Cu 324.752 Recovery = 97.15%						
Fe 273.955†	97257.8	5.1258 mg/L	0.05804	5.1258 mg/L	0.05804	1.13%
QC value within limits for Fe 273.955 Recovery = 102.52%						
Mg 279.077†	349782.0	24.718 mg/L	0.2901	24.718 mg/L	0.2901	1.17%
QC value within limits for Mg 279.077 Recovery = 98.87%						
Mn 257.610†	914687.5	2.4796 mg/L	0.00366	2.4796 mg/L	0.00366	0.15%
QC value within limits for Mn 257.610 Recovery = 99.19%						
Ni 231.604†	42216.9	2.6072 mg/L	0.03761	2.6072 mg/L	0.03761	1.44%
QC value within limits for Ni 231.604 Recovery = 104.29%						
Pb 220.353†	2618.0	0.49551 mg/L	0.003177	0.49551 mg/L	0.003177	0.64%
QC value within limits for Pb 220.353 Recovery = 99.10%						
Sb 206.836†	980.3	0.47455 mg/L	0.009928	0.47455 mg/L	0.009928	2.09%
QC value within limits for Sb 206.836 Recovery = 94.91%						
Se 196.026†	396.9	0.49178 mg/L	0.010784	0.49178 mg/L	0.010784	2.19%
QC value within limits for Se 196.026 Recovery = 98.36%						
Tl 190.801†	750.5	0.50136 mg/L	0.002892	0.50136 mg/L	0.002892	0.58%
QC value within limits for Tl 190.801 Recovery = 100.27%						
V 292.402†	159886.4	2.5129 mg/L	0.02826	2.5129 mg/L	0.02826	1.12%
QC value within limits for V 292.402 Recovery = 100.52%						
Zn 206.200†	54113.7	2.5144 mg/L	0.03351	2.5144 mg/L	0.03351	1.33%
QC value within limits for Zn 206.200 Recovery = 100.58%						
Cd 226.502†	9740.4	0.24679 mg/L	0.003770	0.24679 mg/L	0.003770	1.53%
QC value within limits for Cd 226.502 Recovery = 98.71%						
Ti 334.940†	206434.5	0.48549 mg/L	0.004772	0.48549 mg/L	0.004772	0.98%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Ca 227.546†	4463.2	25.146 mg/L	0.1078	25.146 mg/L	0.1078	0.43%
QC value within limits for Ca 227.546 Recovery = 100.58%						
Na 589.592	79839.2	25.995 mg/L	0.0425	25.995 mg/L	0.0425	0.16%
QC value within limits for Na 589.592 Recovery = 103.98%						
K 766.490	32691.8	25.957 mg/L	0.0507	25.957 mg/L	0.0507	0.20%
QC value within limits for K 766.490 Recovery = 103.83%						

All analyte(s) passed QC.

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Sequence No.: 17 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 5/18/2011 8:36:29 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1062311.3	102.10	%	0.952				0.93%
Lu 261.542	1159520.6	101.3	%	0.91				0.89%
Ag 328.068†	106.9	0.00099	mg/L	0.000183	0.00099	mg/L	0.000183	18.53%
Al 308.215†	60.2	0.00328	mg/L	0.007969	0.00328	mg/L	0.007969	242.64%
As 188.979†	4.0	0.00300	mg/L	0.001034	0.00300	mg/L	0.001034	34.44%
Ba 233.527†	111.6	0.00170	mg/L	0.000762	0.00170	mg/L	0.000762	44.91%
Be 313.107†	52.6	0.00004	mg/L	0.000010	0.00004	mg/L	0.000010	22.58%
Co 228.616†	10.2	0.00070	mg/L	0.000216	0.00070	mg/L	0.000216	30.87%
Cr 267.716†	6.6	0.00015	mg/L	0.000081	0.00015	mg/L	0.000081	52.49%
Cu 324.752†	119.8	0.00067	mg/L	0.000441	0.00067	mg/L	0.000441	66.25%
Fe 273.955†	65.5	0.00341	mg/L	0.000200	0.00341	mg/L	0.000200	5.86%

Mg 279.077†	124.6	0.00880	mg/L	0.002978	0.00880	mg/L	0.002978 33.84%
Mn 257.610†	167.7	0.00045	mg/L	0.000187	0.00045	mg/L	0.000187 41.14%
Ni 231.604†	12.4	0.00077	mg/L	0.000336	0.00077	mg/L	0.000336 43.93%
Pb 220.353†	-8.0	-0.00151	mg/L	0.001221	-0.00151	mg/L	0.001221 80.86%
Sb 206.836†	6.0	0.00298	mg/L	0.000702	0.00298	mg/L	0.000702 23.52%
Se 196.026†	-7.3	-0.00903	mg/L	0.004488	-0.00903	mg/L	0.004488 49.70%
Tl 190.801†	-1.4	-0.00094	mg/L	0.000746	-0.00094	mg/L	0.000746 79.39%
V 292.402†	26.9	0.00042	mg/L	0.000767	0.00042	mg/L	0.000767 181.22%
Zn 206.200†	19.3	0.00090	mg/L	0.000247	0.00090	mg/L	0.000247 27.52%
Cd 226.502†	0.3	0.00001	mg/L	0.000036	0.00001	mg/L	0.000036 442.24%
Ti 334.940†	89.9	0.00021	mg/L	0.000100	0.00021	mg/L	0.000100 47.10%
Ca 227.546†	13.6	0.07671	mg/L	0.061926	0.07671	mg/L	0.061926 80.73%
Na 589.592	141.8	0.04616	mg/L	0.016401	0.04616	mg/L	0.016401 35.53%
K 766.490	2.6	0.00204	mg/L	0.029323	0.00204	mg/L	0.029323 >999.9%

Sequence No.: 18 **Autosampler Location: 44**
Sample ID: K0834-03B~SL-MW-13 **Date Collected: 5/18/2011 8:40:08 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0834-03B~SL-MW-13

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1069564.8	102.79	%	1.044				1.02%
Lu 261.542	1176722.3	102.9	%	1.08				1.05%
Ag 328.068†	71.1	0.00066	mg/L	0.000510	0.00066	mg/L	0.000510	76.88%
Al 308.215†	10209.6	0.55774	mg/L	0.016317	0.55774	mg/L	0.016317	2.93%
As 188.979†	-5.9	0.00030	mg/L	0.002963	0.00030	mg/L	0.002963	982.88%
Ba 233.527†	3206.8	0.04876	mg/L	0.000358	0.04876	mg/L	0.000358	0.73%
Be 313.107†	336.3	0.00030	mg/L	0.000016	0.00030	mg/L	0.000016	5.52%
Co 228.616†	92.1	0.00614	mg/L	0.000145	0.00614	mg/L	0.000145	2.35%
Cr 267.716†	35074.4	0.81889	mg/L	0.008309	0.81889	mg/L	0.008309	1.01%
Cu 324.752†	6924.7	0.03875	mg/L	0.000419	0.03875	mg/L	0.000419	1.08%
Fe 273.955†	93271.4	4.8424	mg/L	0.05910	4.8424	mg/L	0.05910	1.22%
Mg 279.077†	30159.5	2.1317	mg/L	0.03547	2.1317	mg/L	0.03547	1.66%
Mn 257.610†	108492.8	0.29411	mg/L	0.000234	0.29411	mg/L	0.000234	0.08%
Ni 231.604†	5592.9	0.34542	mg/L	0.002738	0.34542	mg/L	0.002738	0.79%
Pb 220.353†	26.8	0.00511	mg/L	0.001694	0.00511	mg/L	0.001694	33.13%
Sb 206.836†	41.1	0.00542	mg/L	0.001816	0.00542	mg/L	0.001816	33.53%
Se 196.026†	-4.5	-0.00433	mg/L	0.000583	-0.00433	mg/L	0.000583	13.48%
Tl 190.801†	-1.6	-0.00098	mg/L	0.000940	-0.00098	mg/L	0.000940	96.08%
V 292.402†	498.1	0.00945	mg/L	0.000450	0.00945	mg/L	0.000450	4.77%
Zn 206.200†	2067.2	0.09819	mg/L	0.001259	0.09819	mg/L	0.001259	1.28%
Cd 226.502†	3812.4	0.09638	mg/L	0.001752	0.09638	mg/L	0.001752	1.82%
Ti 334.940†	4743.0	0.01115	mg/L	0.002340	0.01115	mg/L	0.002340	20.99%
Ca 227.546†	1482.7	8.5671	mg/L	0.11143	8.5671	mg/L	0.11143	1.30%
Na 589.592	110708.6	36.046	mg/L	0.3477	36.046	mg/L	0.3477	0.96%
K 766.490	4387.8	3.4838	mg/L	0.04850	3.4838	mg/L	0.04850	1.39%

Sequence No.: 19 **Autosampler Location: 45**
Sample ID: K0834-05B~SL-MW-14 **Date Collected: 5/18/2011 8:43:47 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0834-05B~SL-MW-14

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1064575.7	102.31	%	0.238				0.23%
Lu 261.542	1181111.1	103.2	%	0.04				0.04%
Ag 328.068†	76.9	0.00071	mg/L	0.000099	0.00071	mg/L	0.000099	13.88%
Al 308.215†	22951.5	1.2540	mg/L	0.00363	1.2540	mg/L	0.00363	0.29%
As 188.979†	1.3	0.00202	mg/L	0.003627	0.00202	mg/L	0.003627	179.95%
Ba 233.527†	2397.4	0.03645	mg/L	0.000071	0.03645	mg/L	0.000071	0.19%
Be 313.107†	25.6	0.00009	mg/L	0.000010	0.00009	mg/L	0.000010	10.87%
Co 228.616†	53.0	0.00355	mg/L	0.000380	0.00355	mg/L	0.000380	10.68%

Cr 267.716†	6562.1	0.15319	mg/L	0.001586	0.15319	mg/L	0.001586	1.04%
Cu 324.752†	1613.6	0.00905	mg/L	0.000366	0.00905	mg/L	0.000366	4.04%
Fe 273.955†	33266.4	1.7265	mg/L	0.01139	1.7265	mg/L	0.01139	0.66%
Mg 279.077†	32929.4	2.3264	mg/L	0.01696	2.3264	mg/L	0.01696	0.73%
Mn 257.610†	37232.8	0.10089	mg/L	0.000696	0.10089	mg/L	0.000696	0.69%
Ni 231.604†	458.4	0.02828	mg/L	0.000151	0.02828	mg/L	0.000151	0.53%
Pb 220.353†	25.2	0.00484	mg/L	0.000905	0.00484	mg/L	0.000905	18.71%
Sb 206.836†	10.5	0.00224	mg/L	0.001830	0.00224	mg/L	0.001830	81.62%
Se 196.026†	-3.9	-0.00450	mg/L	0.003738	-0.00450	mg/L	0.003738	83.10%
Tl 190.801†	-6.8	-0.00415	mg/L	0.002235	-0.00415	mg/L	0.002235	53.88%
V 292.402†	184.6	0.00323	mg/L	0.000452	0.00323	mg/L	0.000452	14.00%
Zn 206.200†	770.8	0.03619	mg/L	0.000264	0.03619	mg/L	0.000264	0.73%
Cd 226.502†	90.5	0.00216	mg/L	0.000122	0.00216	mg/L	0.000122	5.64%
Ti 334.940†	14807.0	0.03490	mg/L	0.003172	0.03490	mg/L	0.003172	9.09%
Ca 227.546†	1447.8	8.2127	mg/L	0.03516	8.2127	mg/L	0.03516	0.43%
Na 589.592	254399.0	82.831	mg/L	1.5897	82.831	mg/L	1.5897	1.92%
K 766.490	1955.2	1.5524	mg/L	0.05853	1.5524	mg/L	0.05853	3.77%

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Sequence No.: 20 **Autosampler Location: 46**
Sample ID: K0834-06B~SL-MW-23S **Date Collected: 5/18/2011 8:47:32 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0834-06B~SL-MW-23S

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1056349.9	101.52	%	1.381				1.36%
Lu 261.542	1176851.4	102.9	%	1.08				1.05%
Ag 328.068†	116.9	0.00108	mg/L	0.000417	0.00108	mg/L	0.000417	38.52%
Al 308.215†	6482.9	0.35421	mg/L	0.015578	0.35421	mg/L	0.015578	4.40%
As 188.979†	0.6	0.00075	mg/L	0.003495	0.00075	mg/L	0.003495	466.96%
Ba 233.527†	959.2	0.01459	mg/L	0.000165	0.01459	mg/L	0.000165	1.13%
Be 313.107†	58.6	0.00008	mg/L	0.000020	0.00008	mg/L	0.000020	25.75%
Co 228.616†	7.3	0.00046	mg/L	0.000172	0.00046	mg/L	0.000172	37.03%
Cr 267.716†	101.5	0.00206	mg/L	0.000189	0.00206	mg/L	0.000189	9.19%
Cu 324.752†	1104.5	0.00614	mg/L	0.000151	0.00614	mg/L	0.000151	2.45%
Fe 273.955†	8900.2	0.46175	mg/L	0.003461	0.46175	mg/L	0.003461	0.75%
Mg 279.077†	83434.0	5.9004	mg/L	0.04845	5.9004	mg/L	0.04845	0.82%
Mn 257.610†	547970.6	1.4859	mg/L	0.02217	1.4859	mg/L	0.02217	1.49%
Ni 231.604†	234.1	0.01443	mg/L	0.000316	0.01443	mg/L	0.000316	2.19%
Pb 220.353†	12.4	0.00225	mg/L	0.001287	0.00225	mg/L	0.001287	57.18%
Sb 206.836†	3.0	0.00135	mg/L	0.003496	0.00135	mg/L	0.003496	259.48%
Se 196.026†	1.5	0.00066	mg/L	0.001703	0.00066	mg/L	0.001703	256.56%
Tl 190.801†	-7.8	-0.00492	mg/L	0.003144	-0.00492	mg/L	0.003144	63.92%
V 292.402†	35.2	0.00069	mg/L	0.000417	0.00069	mg/L	0.000417	60.36%
Zn 206.200†	1066.0	0.04948	mg/L	0.000492	0.04948	mg/L	0.000492	0.99%
Cd 226.502†	80.6	0.00201	mg/L	0.000026	0.00201	mg/L	0.000026	1.30%
Ti 334.940†	6760.5	0.01601	mg/L	0.003118	0.01601	mg/L	0.003118	19.48%
Ca 227.546†	2617.6	14.706	mg/L	0.1998	14.706	mg/L	0.1998	1.36%
Na 589.592	91735.8	29.869	mg/L	0.7021	29.869	mg/L	0.7021	2.35%
K 766.490	1652.5	1.3121	mg/L	0.05986	1.3121	mg/L	0.05986	4.56%

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Sequence No.: 21 **Autosampler Location: 47**
Sample ID: K0834-07B~SL-MW-23D **Date Collected: 5/18/2011 8:51:30 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0834-07B~SL-MW-23D

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1062898.2	102.15	%	1.150				1.13%
Lu 261.542	1171250.4	102.4	%	0.97				0.95%
Ag 328.068†	34.1	0.00032	mg/L	0.000420	0.00032	mg/L	0.000420	133.25%
Al 308.215†	6452.7	0.35256	mg/L	0.007547	0.35256	mg/L	0.007547	2.14%
As 188.979†	-1.7	-0.00096	mg/L	0.001048	-0.00096	mg/L	0.001048	108.76%

Ba 233.527†	1791.7	0.02724	mg/L	0.000525	0.02724	mg/L	0.000525	1.93%
Be 313.107†	13.7	0.00003	mg/L	0.000011	0.00003	mg/L	0.000011	32.26%
Co 228.616†	11.1	0.00073	mg/L	0.000128	0.00073	mg/L	0.000128	17.59%
Cr 267.716†	88.7	0.00177	mg/L	0.000249	0.00177	mg/L	0.000249	14.08%
Cu 324.752†	2312.8	0.01287	mg/L	0.000449	0.01287	mg/L	0.000449	3.49%
Fe 273.955†	12285.6	0.63737	mg/L	0.013258	0.63737	mg/L	0.013258	2.08%
Mg 279.077†	57634.7	4.0780	mg/L	0.10033	4.0780	mg/L	0.10033	2.46%
Mn 257.610†	540738.0	1.4663	mg/L	0.00855	1.4663	mg/L	0.00855	0.58%
Ni 231.604†	22.5	0.00137	mg/L	0.000176	0.00137	mg/L	0.000176	12.86%
Pb 220.353†	24.6	0.00456	mg/L	0.000516	0.00456	mg/L	0.000516	11.31%
Sb 206.836†	1.7	0.00069	mg/L	0.001318	0.00069	mg/L	0.001318	190.79%
Se 196.026†	-1.8	-0.00347	mg/L	0.005901	-0.00347	mg/L	0.005901	169.91%
Tl 190.801†	-0.9	-0.00041	mg/L	0.000919	-0.00041	mg/L	0.000919	224.07%
V 292.402†	38.4	0.00075	mg/L	0.000336	0.00075	mg/L	0.000336	44.65%
Zn 206.200†	893.7	0.04148	mg/L	0.000962	0.04148	mg/L	0.000962	2.32%
Cd 226.502†	14.7	0.00032	mg/L	0.000029	0.00032	mg/L	0.000029	8.91%
Ti 334.940†	5125.8	0.01224	mg/L	0.000593	0.01224	mg/L	0.000593	4.84%
Ca 227.546†	3340.2	18.769	mg/L	0.3138	18.769	mg/L	0.3138	1.67%
Na 589.592	50351.1	16.394	mg/L	0.1119	16.394	mg/L	0.1119	0.68%
K 766.490	3571.9	2.8360	mg/L	0.03359	2.8360	mg/L	0.03359	1.18%

Sequence No.: 22 **Autosampler Location: 48**
Sample ID: K0834-08B~SL-MW-16 **Date Collected: 5/18/2011 8:55:34 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0834-08B~SL-MW-16

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1050698.3	100.98	%	1.422				1.41%
Lu 261.542	1168295.6	102.1	%	0.97				0.95%
Ag 328.068†	86.8	0.00081	mg/L	0.000162	0.00081	mg/L	0.000162	20.10%
Al 308.215†	14988.0	0.81888	mg/L	0.019123	0.81888	mg/L	0.019123	2.34%
As 188.979†	0.2	0.00215	mg/L	0.001406	0.00215	mg/L	0.001406	65.30%
Ba 233.527†	991.9	0.01508	mg/L	0.000040	0.01508	mg/L	0.000040	0.26%
Be 313.107†	5.2	0.00004	mg/L	0.000011	0.00004	mg/L	0.000011	26.74%
Co 228.616†	29.5	0.00192	mg/L	0.000506	0.00192	mg/L	0.000506	26.37%
Cr 267.716†	13723.4	0.32039	mg/L	0.005794	0.32039	mg/L	0.005794	1.81%
Cu 324.752†	8186.1	0.04560	mg/L	0.000638	0.04560	mg/L	0.000638	1.40%
Fe 273.955†	51380.1	2.6669	mg/L	0.04595	2.6669	mg/L	0.04595	1.72%
Mg 279.077†	115372.3	8.1493	mg/L	0.15424	8.1493	mg/L	0.15424	1.89%
Mn 257.610†	17539.4	0.04730	mg/L	0.001095	0.04730	mg/L	0.001095	2.31%
Ni 231.604†	1189.0	0.07339	mg/L	0.000619	0.07339	mg/L	0.000619	0.84%
Pb 220.353†	11.0	0.00214	mg/L	0.001021	0.00214	mg/L	0.001021	47.75%
Sb 206.836†	15.7	0.00177	mg/L	0.001157	0.00177	mg/L	0.001157	65.52%
Se 196.026†	1.0	0.00165	mg/L	0.003785	0.00165	mg/L	0.003785	229.73%
Tl 190.801†	-5.9	-0.00366	mg/L	0.001739	-0.00366	mg/L	0.001739	47.56%
V 292.402†	213.8	0.00402	mg/L	0.000543	0.00402	mg/L	0.000543	13.51%
Zn 206.200†	714.5	0.03404	mg/L	0.000211	0.03404	mg/L	0.000211	0.62%
Cd 226.502†	16.2	0.00020	mg/L	0.000062	0.00020	mg/L	0.000062	31.61%
Ti 334.940†	7832.3	0.01849	mg/L	0.000526	0.01849	mg/L	0.000526	2.85%
Ca 227.546†	3054.1	17.271	mg/L	0.2045	17.271	mg/L	0.2045	1.18%
Na 589.592	280373.5	91.288	mg/L	0.1702	91.288	mg/L	0.1702	0.19%
K 766.490	2493.8	1.9800	mg/L	0.02062	1.9800	mg/L	0.02062	1.04%

Sequence No.: 23 **Autosampler Location: 49**
Sample ID: K0834-09B~SL-MW-2 **Date Collected: 5/18/2011 8:59:47 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0834-09B~SL-MW-2

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1082149.8	104.00	%	0.372				0.36%
Lu 261.542	1190399.8	104.0	%	0.72				0.69%

Ag 328.068†	65.6	0.00061	mg/L	0.000127	0.00061	mg/L	0.000127 20.73%
Al 308.215†	17152.9	0.93714	mg/L	0.011838	0.93714	mg/L	0.011838 1.26%
As 188.979†	-2.4	0.00089	mg/L	0.002862	0.00089	mg/L	0.002862 320.07%
Ba 233.527†	2439.7	0.03710	mg/L	0.000305	0.03710	mg/L	0.000305 0.82%
Be 313.107†	-8.6	0.00003	mg/L	0.000015	0.00003	mg/L	0.000015 54.82%
Co 228.616†	51.0	0.00341	mg/L	0.000051	0.00341	mg/L	0.000051 1.50%
Cr 267.716†	18593.0	0.43403	mg/L	0.005212	0.43403	mg/L	0.005212 1.20%
Cu 324.752†	5063.9	0.02828	mg/L	0.000407	0.02828	mg/L	0.000407 1.44%
Fe 273.955†	53718.5	2.7888	mg/L	0.02526	2.7888	mg/L	0.02526 0.91%
Mg 279.077†	44949.1	3.1771	mg/L	0.03486	3.1771	mg/L	0.03486 1.10%
Mn 257.610†	171609.7	0.46527	mg/L	0.002858	0.46527	mg/L	0.002858 0.61%
Ni 231.604†	1134.7	0.07005	mg/L	0.000405	0.07005	mg/L	0.000405 0.58%
Pb 220.353†	38.7	0.00735	mg/L	0.001355	0.00735	mg/L	0.001355 18.43%
Sb 206.836†	13.4	-0.00138	mg/L	0.003073	-0.00138	mg/L	0.003073 222.09%
Se 196.026†	-2.7	-0.00329	mg/L	0.001644	-0.00329	mg/L	0.001644 49.99%
Tl 190.801†	-3.5	-0.00211	mg/L	0.001360	-0.00211	mg/L	0.001360 64.50%
V 292.402†	298.1	0.00557	mg/L	0.000156	0.00557	mg/L	0.000156 2.80%
Zn 206.200†	1790.8	0.08431	mg/L	0.001473	0.08431	mg/L	0.001473 1.75%
Cd 226.502†	690.2	0.01729	mg/L	0.000128	0.01729	mg/L	0.000128 0.74%
Ti 334.940†	7474.0	0.01773	mg/L	0.000578	0.01773	mg/L	0.000578 3.26%
Ca 227.546†	3345.3	18.912	mg/L	0.1302	18.912	mg/L	0.1302 0.69%
Na 589.592	91823.9	29.897	mg/L	0.2795	29.897	mg/L	0.2795 0.93%
K 766.490	2991.5	2.3752	mg/L	0.05008	2.3752	mg/L	0.05008 2.11%

Sequence No.: 24 **Autosampler Location: 50**
Sample ID: K0834-10B~SL-MW-3A **Date Collected: 5/18/2011 9:04:43 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0834-10B~SL-MW-3A

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 360.073	1055665.6	101.46	%	1.131				1.11%
Lu 261.542	1179576.5	103.1	%	1.44				1.40%
Ag 328.068†	90.7	0.00086	mg/L	0.000432	0.00086	mg/L	0.000432	50.37%
Al 308.215†	197699.4	10.802	mg/L	0.0902	10.802	mg/L	0.0902	0.83%
As 188.979†	6.3	0.00674	mg/L	0.002215	0.00674	mg/L	0.002215	32.85%
Ba 233.527†	6666.2	0.10139	mg/L	0.001070	0.10139	mg/L	0.001070	1.06%
Be 313.107†	-352.3	0.00035	mg/L	0.000024	0.00035	mg/L	0.000024	6.81%
Co 228.616†	170.7	0.01086	mg/L	0.000471	0.01086	mg/L	0.000471	4.33%
Cr 267.716†	7118.2	0.16599	mg/L	0.001322	0.16599	mg/L	0.001322	0.80%
Cu 324.752†	24981.7	0.13943	mg/L	0.001214	0.13943	mg/L	0.001214	0.87%
Fe 273.955†	270855.6	14.053	mg/L	0.1386	14.053	mg/L	0.1386	0.99%
Mg 279.077†	59850.7	4.2325	mg/L	0.04897	4.2325	mg/L	0.04897	1.16%
Mn 257.610†	383245.4	1.0391	mg/L	0.00077	1.0391	mg/L	0.00077	0.07%
Ni 231.604†	975.1	0.05997	mg/L	0.000536	0.05997	mg/L	0.000536	0.89%
Pb 220.353†	441.7	0.08402	mg/L	0.000774	0.08402	mg/L	0.000774	0.92%
Sb 206.836†	12.8	0.00183	mg/L	0.000655	0.00183	mg/L	0.000655	35.71%
Se 196.026†	-1.1	0.00188	mg/L	0.004559	0.00188	mg/L	0.004559	242.98%
Tl 190.801†	-6.6	-0.00143	mg/L	0.002607	-0.00143	mg/L	0.002607	182.85%
V 292.402†	1716.0	0.02789	mg/L	0.000459	0.02789	mg/L	0.000459	1.65%
Zn 206.200†	18619.4	0.86462	mg/L	0.013105	0.86462	mg/L	0.013105	1.52%
Cd 226.502†	176.9	0.00333	mg/L	0.000077	0.00333	mg/L	0.000077	2.31%
Ti 334.940†	138954.3	0.32731	mg/L	0.005400	0.32731	mg/L	0.005400	1.65%
Ca 227.546†	5241.7	30.152	mg/L	0.3618	30.152	mg/L	0.3618	1.20%
Na 589.592	184383.5	60.034	mg/L	1.2121	60.034	mg/L	1.2121	2.02%
K 766.490	5033.0	3.9961	mg/L	0.05934	3.9961	mg/L	0.05934	1.48%

Sequence No.: 25 **Autosampler Location: 51**
Sample ID: K0834-11B~SL-MW-3B **Date Collected: 5/18/2011 9:09:49 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0834-11B~SL-MW-3B

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD

Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y 360.073	1088843.6	104.65	%	0.157				0.15%
Lu 261.542	1204408.0	105.3	%	0.36				0.34%
Ag 328.068†	40.7	0.00038	mg/L	0.000146	0.00038	mg/L	0.000146	37.91%
Al 308.215†	72343.1	3.9526	mg/L	0.00912	3.9526	mg/L	0.00912	0.23%
As 188.979†	-0.9	0.00300	mg/L	0.002233	0.00300	mg/L	0.002233	74.38%
Ba 233.527†	2147.7	0.03266	mg/L	0.000152	0.03266	mg/L	0.000152	0.47%
Be 313.107†	-130.9	0.00016	mg/L	0.000013	0.00016	mg/L	0.000013	8.09%
Co 228.616†	99.9	0.00651	mg/L	0.000037	0.00651	mg/L	0.000037	0.57%
Cr 267.716†	25470.3	0.59468	mg/L	0.001564	0.59468	mg/L	0.001564	0.26%
Cu 324.752†	9028.2	0.05048	mg/L	0.000375	0.05048	mg/L	0.000375	0.74%
Fe 273.955†	118590.1	6.1550	mg/L	0.01374	6.1550	mg/L	0.01374	0.22%
Mg 279.077†	24036.8	1.6984	mg/L	0.00559	1.6984	mg/L	0.00559	0.33%
Mn 257.610†	44826.4	0.12147	mg/L	0.000203	0.12147	mg/L	0.000203	0.17%
Ni 231.604†	1776.6	0.10963	mg/L	0.000738	0.10963	mg/L	0.000738	0.67%
Pb 220.353†	156.5	0.02982	mg/L	0.000444	0.02982	mg/L	0.000444	1.49%
Sb 206.836†	22.3	-0.00026	mg/L	0.003591	-0.00026	mg/L	0.003591	>999.9%
Se 196.026†	-4.4	-0.00386	mg/L	0.003429	-0.00386	mg/L	0.003429	88.93%
Tl 190.801†	-4.7	-0.00204	mg/L	0.000666	-0.00204	mg/L	0.000666	32.69%
V 292.402†	759.7	0.01316	mg/L	0.000472	0.01316	mg/L	0.000472	3.59%
Zn 206.200†	5242.4	0.24495	mg/L	0.002252	0.24495	mg/L	0.002252	0.92%
Cd 226.502†	37.7	0.00045	mg/L	0.000076	0.00045	mg/L	0.000076	16.96%
Ti 334.940†	58328.4	0.13734	mg/L	0.000976	0.13734	mg/L	0.000976	0.71%
Ca 227.546†	2247.1	12.932	mg/L	0.0771	12.932	mg/L	0.0771	0.60%
Na 589.592	25365.2	8.2587	mg/L	0.02158	8.2587	mg/L	0.02158	0.26%
K 766.490	2410.9	1.9142	mg/L	0.06736	1.9142	mg/L	0.06736	3.52%

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Sequence No.: 26 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 5/18/2011 9:14:01 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1043071.8	100.25	%	0.532				0.53%
Lu 261.542	1158947.8	101.3	%	0.38				0.38%
Ag 328.068†	134174.3	1.2448	mg/L	0.00414	1.2448	mg/L	0.00414	0.33%
QC value within limits for Ag 328.068 Recovery = 99.58%								
Al 308.215†	185222.1	10.090	mg/L	0.0341	10.090	mg/L	0.0341	0.34%
QC value within limits for Al 308.215 Recovery = 100.90%								
As 188.979†	648.1	0.49647	mg/L	0.003761	0.49647	mg/L	0.003761	0.76%
QC value within limits for As 188.979 Recovery = 99.29%								
Ba 233.527†	678336.8	10.317	mg/L	0.0408	10.317	mg/L	0.0408	0.40%
QC value within limits for Ba 233.527 Recovery = 103.17%								
Be 313.107†	308302.2	0.25257	mg/L	0.000724	0.25257	mg/L	0.000724	0.29%
QC value within limits for Be 313.107 Recovery = 101.03%								
Co 228.616†	37975.0	2.6105	mg/L	0.02119	2.6105	mg/L	0.02119	0.81%
QC value within limits for Co 228.616 Recovery = 104.42%								
Cr 267.716†	44901.8	1.0486	mg/L	0.00335	1.0486	mg/L	0.00335	0.32%
QC value within limits for Cr 267.716 Recovery = 104.86%								
Cu 324.752†	222171.9	1.2348	mg/L	0.00722	1.2348	mg/L	0.00722	0.58%
QC value within limits for Cu 324.752 Recovery = 98.78%								
Fe 273.955†	98790.1	5.2058	mg/L	0.02372	5.2058	mg/L	0.02372	0.46%
QC value within limits for Fe 273.955 Recovery = 104.12%								
Mg 279.077†	360658.6	25.487	mg/L	0.1061	25.487	mg/L	0.1061	0.42%
QC value within limits for Mg 279.077 Recovery = 101.95%								
Mn 257.610†	935670.7	2.5365	mg/L	0.00951	2.5365	mg/L	0.00951	0.37%
QC value within limits for Mn 257.610 Recovery = 101.46%								
Ni 231.604†	42444.0	2.6212	mg/L	0.00514	2.6212	mg/L	0.00514	0.20%
QC value within limits for Ni 231.604 Recovery = 104.85%								
Pb 220.353†	2701.2	0.51126	mg/L	0.002959	0.51126	mg/L	0.002959	0.58%
QC value within limits for Pb 220.353 Recovery = 102.25%								
Sb 206.836†	1013.5	0.49093	mg/L	0.003033	0.49093	mg/L	0.003033	0.62%
QC value within limits for Sb 206.836 Recovery = 98.19%								
Se 196.026†	404.9	0.50161	mg/L	0.010498	0.50161	mg/L	0.010498	2.09%
QC value within limits for Se 196.026 Recovery = 100.32%								
Tl 190.801†	770.1	0.51440	mg/L	0.002790	0.51440	mg/L	0.002790	0.54%

QC value within limits for Tl 190.801 Recovery = 102.88%

V 292.402†	160854.0	2.5281 mg/L	0.00592	2.5281 mg/L	0.00592	0.23%

QC value within limits for V 292.402 Recovery = 101.13%

Zn 206.200†	55609.8	2.5838 mg/L	0.02306	2.5838 mg/L	0.02306	0.89%

QC value within limits for Zn 206.200 Recovery = 103.35%

Cd 226.502†	9919.4	0.25132 mg/L	0.002049	0.25132 mg/L	0.002049	0.82%

QC value within limits for Cd 226.502 Recovery = 100.53%

Ti 334.940†	211348.6	0.49705 mg/L	0.003990	0.49705 mg/L	0.003990	0.80%

QC value within limits for Ti 334.940 Recovery = Not calculated

Ca 227.546†	4562.4	25.705 mg/L	0.1871	25.705 mg/L	0.1871	0.73%

QC value within limits for Ca 227.546 Recovery = 102.82%

Na 589.592	81300.8	26.471 mg/L	0.2222	26.471 mg/L	0.2222	0.84%

QC value within limits for Na 589.592 Recovery = 105.88%

K 766.490	33392.5	26.513 mg/L	0.2217	26.513 mg/L	0.2217	0.84%

QC value within limits for K 766.490 Recovery = 106.05%

All analyte(s) passed QC.

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Sequence No.: 27 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 5/18/2011 9:18:43 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1067665.8	102.61	%	0.616				0.60%
Lu 261.542	1170012.3	102.3	%	0.75				0.74%
Ag 328.068†	66.4	0.00061	mg/L	0.000439	0.00061	mg/L	0.000439	71.46%
Al 308.215†	31.0	0.00169	mg/L	0.007575	0.00169	mg/L	0.007575	447.40%
As 188.979†	4.0	0.00305	mg/L	0.001199	0.00305	mg/L	0.001199	39.27%
Ba 233.527†	49.9	0.00076	mg/L	0.000240	0.00076	mg/L	0.000240	31.59%
Be 313.107†	43.2	0.00004	mg/L	0.000031	0.00004	mg/L	0.000031	86.84%
Co 228.616†	4.6	0.00032	mg/L	0.000050	0.00032	mg/L	0.000050	15.81%
Cr 267.716†	2.7	0.00006	mg/L	0.000163	0.00006	mg/L	0.000163	260.44%
Cu 324.752†	48.9	0.00027	mg/L	0.000160	0.00027	mg/L	0.000160	58.85%
Fe 273.955†	42.8	0.00222	mg/L	0.000496	0.00222	mg/L	0.000496	22.33%
Mg 279.077†	66.1	0.00467	mg/L	0.002558	0.00467	mg/L	0.002558	54.80%
Mn 257.610†	75.9	0.00021	mg/L	0.000040	0.00021	mg/L	0.000040	19.28%
Ni 231.604†	2.3	0.00014	mg/L	0.000244	0.00014	mg/L	0.000244	170.56%
Pb 220.353†	4.4	0.00083	mg/L	0.001411	0.00083	mg/L	0.001411	170.10%
Sb 206.836†	4.9	0.00243	mg/L	0.000710	0.00243	mg/L	0.000710	29.17%
Se 196.026†	-5.1	-0.00633	mg/L	0.005614	-0.00633	mg/L	0.005614	88.67%
Tl 190.801†	2.4	0.00159	mg/L	0.002545	0.00159	mg/L	0.002545	159.56%
V 292.402†	-2.8	-0.00004	mg/L	0.000424	-0.00004	mg/L	0.000424	975.64%
Zn 206.200†	15.8	0.00073	mg/L	0.000204	0.00073	mg/L	0.000204	27.79%
Cd 226.502†	1.9	0.00005	mg/L	0.000140	0.00005	mg/L	0.000140	285.49%
Ti 334.940†	11.4	0.00003	mg/L	0.000106	0.00003	mg/L	0.000106	404.39%
Ca 227.546†	-1.0	-0.00536	mg/L	0.055490	-0.00536	mg/L	0.055490	>999.9%
Na 589.592	139.4	0.04539	mg/L	0.015752	0.04539	mg/L	0.015752	34.70%
K 766.490	9.9	0.00782	mg/L	0.038920	0.00782	mg/L	0.038920	497.49%

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Sequence No.: 28 **Autosampler Location: 52**
Sample ID: K0834-12B~SL-MW-4 **Date Collected: 5/18/2011 9:23:41 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0834-12B~SL-MW-4

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1072481.6	103.07	%	0.445				0.43%
Lu 261.542	1192467.0	104.2	%	0.58				0.56%
Ag 328.068†	68.7	0.00064	mg/L	0.000517	0.00064	mg/L	0.000517	81.20%
Al 308.215†	204087.5	11.151	mg/L	0.0720	11.151	mg/L	0.0720	0.65%
As 188.979†	-1.0	0.00258	mg/L	0.000974	0.00258	mg/L	0.000974	37.71%
Ba 233.527†	2971.2	0.04518	mg/L	0.000418	0.04518	mg/L	0.000418	0.93%

Be 313.107†	-55.6	0.00012	mg/L	0.000013	0.00012	mg/L	0.000013	11.48%
Co 228.616†	110.7	0.00735	mg/L	0.000212	0.00735	mg/L	0.000212	2.89%
Cr 267.716†	23664.3	0.55223	mg/L	0.003800	0.55223	mg/L	0.003800	0.69%
Cu 324.752†	22206.7	0.12362	mg/L	0.000958	0.12362	mg/L	0.000958	0.78%
Fe 273.955†	97427.3	5.0568	mg/L	0.04459	5.0568	mg/L	0.04459	0.88%
Mg 279.077†	56653.5	4.0091	mg/L	0.03489	4.0091	mg/L	0.03489	0.87%
Mn 257.610†	566789.1	1.5369	mg/L	0.00742	1.5369	mg/L	0.00742	0.48%
Ni 231.604†	2374.8	0.14660	mg/L	0.001127	0.14660	mg/L	0.001127	0.77%
Pb 220.353†	105.9	0.02035	mg/L	0.000831	0.02035	mg/L	0.000831	4.08%
Sb 206.836†	21.9	-0.00006	mg/L	0.002396	-0.00006	mg/L	0.002396	>999.9%
Se 196.026†	-5.9	-0.00684	mg/L	0.004680	-0.00684	mg/L	0.004680	68.45%
Tl 190.801†	-2.3	-0.00083	mg/L	0.001095	-0.00083	mg/L	0.001095	131.81%
V 292.402†	429.4	0.00797	mg/L	0.000506	0.00797	mg/L	0.000506	6.35%
Zn 206.200†	3276.2	0.15357	mg/L	0.001554	0.15357	mg/L	0.001554	1.01%
Cd 226.502†	66.0	0.00126	mg/L	0.000129	0.00126	mg/L	0.000129	10.22%
Ti 334.940†	34943.7	0.08237	mg/L	0.004384	0.08237	mg/L	0.004384	5.32%
Ca 227.546†	3590.3	20.409	mg/L	0.1489	20.409	mg/L	0.1489	0.73%
Na 589.592	407240.3	132.59	mg/L	1.125	132.59	mg/L	1.125	0.85%
K 766.490	4179.4	3.3184	mg/L	0.03775	3.3184	mg/L	0.03775	1.14%

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Sequence No.: 29 **Autosampler Location: 53**
Sample ID: K0834-12BDUP~SL-MW-4D **Date Collected: 5/18/2011 9:28:27 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0834-12BDUP~SL-MW-4D

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1049351.3	100.85	%	0.901				0.89%
Lu 261.542	1174334.1	102.6	%	1.17				1.14%
Ag 328.068†	29.1	0.00027	mg/L	0.000136	0.00027	mg/L	0.000136	50.58%
Al 308.215†	211488.3	11.555	mg/L	0.0104	11.555	mg/L	0.0104	0.09%
As 188.979†	-0.8	0.00287	mg/L	0.001900	0.00287	mg/L	0.001900	66.20%
Ba 233.527†	3088.7	0.04697	mg/L	0.000212	0.04697	mg/L	0.000212	0.45%
Be 313.107†	-37.5	0.00015	mg/L	0.000021	0.00015	mg/L	0.000021	13.85%
Co 228.616†	115.0	0.00763	mg/L	0.000109	0.00763	mg/L	0.000109	1.43%
Cr 267.716†	24163.0	0.56386	mg/L	0.003350	0.56386	mg/L	0.003350	0.59%
Cu 324.752†	25120.1	0.13981	mg/L	0.001061	0.13981	mg/L	0.001061	0.76%
Fe 273.955†	100061.3	5.1935	mg/L	0.04408	5.1935	mg/L	0.04408	0.85%
Mg 279.077†	58387.2	4.1318	mg/L	0.03214	4.1318	mg/L	0.03214	0.78%
Mn 257.610†	590879.6	1.6022	mg/L	0.00598	1.6022	mg/L	0.00598	0.37%
Ni 231.604†	2409.6	0.14875	mg/L	0.001907	0.14875	mg/L	0.001907	1.28%
Pb 220.353†	114.6	0.02200	mg/L	0.000760	0.02200	mg/L	0.000760	3.45%
Sb 206.836†	26.0	0.00176	mg/L	0.004730	0.00176	mg/L	0.004730	269.36%
Se 196.026†	-0.1	0.00028	mg/L	0.005248	0.00028	mg/L	0.005248	>999.9%
Tl 190.801†	-4.4	-0.00213	mg/L	0.002013	-0.00213	mg/L	0.002013	94.30%
V 292.402†	434.3	0.00807	mg/L	0.000267	0.00807	mg/L	0.000267	3.31%
Zn 206.200†	3417.9	0.16018	mg/L	0.002003	0.16018	mg/L	0.002003	1.25%
Cd 226.502†	70.1	0.00135	mg/L	0.000043	0.00135	mg/L	0.000043	3.19%
Ti 334.940†	39725.8	0.09363	mg/L	0.013867	0.09363	mg/L	0.013867	14.81%
Ca 227.546†	3721.9	21.154	mg/L	0.2232	21.154	mg/L	0.2232	1.06%
Na 589.592	416446.4	135.59	mg/L	0.939	135.59	mg/L	0.939	0.69%
K 766.490	4263.6	3.3852	mg/L	0.03963	3.3852	mg/L	0.03963	1.17%

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Sequence No.: 30 **Autosampler Location: 54**
Sample ID: K0834-12BMS~SL-MW-4S **Date Collected: 5/18/2011 9:32:14 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0834-12BMS~SL-MW-4S

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1058286.7	101.71	%	0.589				0.58%
Lu 261.542	1183088.1	103.4	%	0.60				0.58%
Ag 328.068†	117914.8	1.0939	mg/L	0.00262	1.0939	mg/L	0.00262	0.24%

Al 308.215†	376027.4	20.519	mg/L	0.0997	20.519	mg/L	0.0997	0.49%
As 188.979†	595.0	0.45831	mg/L	0.003987	0.45831	mg/L	0.003987	0.87%
Ba 233.527†	592619.2	9.0129	mg/L	0.02581	9.0129	mg/L	0.02581	0.29%
Be 313.107†	269979.2	0.22049	mg/L	0.001416	0.22049	mg/L	0.001416	0.64%
Co 228.616†	32694.4	2.2478	mg/L	0.01622	2.2478	mg/L	0.01622	0.72%
Cr 267.716†	61125.0	1.4270	mg/L	0.00325	1.4270	mg/L	0.00325	0.23%
Cu 324.752†	218339.9	1.2137	mg/L	0.00453	1.2137	mg/L	0.00453	0.37%
Fe 273.955†	191603.9	10.012	mg/L	0.0422	10.012	mg/L	0.0422	0.42%
Mg 279.077†	365220.8	25.815	mg/L	0.1013	25.815	mg/L	0.1013	0.39%
Mn 257.610†	1378717.3	3.7380	mg/L	0.01430	3.7380	mg/L	0.01430	0.38%
Ni 231.604†	38567.1	2.3819	mg/L	0.01004	2.3819	mg/L	0.01004	0.42%
Pb 220.353†	2483.4	0.47011	mg/L	0.003190	0.47011	mg/L	0.003190	0.68%
Sb 206.836†	907.3	0.42988	mg/L	0.003617	0.42988	mg/L	0.003617	0.84%
Se 196.026†	355.6	0.44121	mg/L	0.005643	0.44121	mg/L	0.005643	1.28%
Tl 190.801†	676.3	0.44930	mg/L	0.004471	0.44930	mg/L	0.004471	1.00%
V 292.402†	138029.0	2.1710	mg/L	0.00487	2.1710	mg/L	0.00487	0.22%
Zn 206.200†	51003.1	2.3711	mg/L	0.01205	2.3711	mg/L	0.01205	0.51%
Cd 226.502†	8880.8	0.22462	mg/L	0.001000	0.22462	mg/L	0.001000	0.45%
Ti 334.940†	36383.1	0.08547	mg/L	0.001651	0.08547	mg/L	0.001651	1.93%
Ca 227.546†	7594.6	42.996	mg/L	0.1824	42.996	mg/L	0.1824	0.42%
Na 589.592	493398.0	160.65	mg/L	1.078	160.65	mg/L	1.078	0.67%
K 766.490	33847.1	26.874	mg/L	0.1372	26.874	mg/L	0.1372	0.51%

Sequence No.: 31 **Autosampler Location: 55**
Sample ID: K0834-12BSD~SL-MW-4 **Date Collected: 5/18/2011 9:35:55 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0834-12BSD~SL-MW-4

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1066121.4	102.46	%	1.181				1.15%
Lu 261.542	1178439.4	103.0	%	0.99				0.96%
Ag 328.068†	85.9	0.00080	mg/L	0.000438	0.00080	mg/L	0.000438	55.04%
Al 308.215†	43396.9	2.3711	mg/L	0.04943	2.3711	mg/L	0.04943	2.08%
As 188.979†	-1.4	-0.00038	mg/L	0.001874	-0.00038	mg/L	0.001874	494.04%
Ba 233.527†	703.6	0.01070	mg/L	0.000603	0.01070	mg/L	0.000603	5.64%
Be 313.107†	17.4	0.00005	mg/L	0.000026	0.00005	mg/L	0.000026	54.20%
Co 228.616†	28.2	0.00188	mg/L	0.000418	0.00188	mg/L	0.000418	22.18%
Cr 267.716†	5035.4	0.11750	mg/L	0.001888	0.11750	mg/L	0.001888	1.61%
Cu 324.752†	4655.5	0.02592	mg/L	0.000912	0.02592	mg/L	0.000912	3.52%
Fe 273.955†	21044.6	1.0923	mg/L	0.02699	1.0923	mg/L	0.02699	2.47%
Mg 279.077†	12428.8	0.87950	mg/L	0.020469	0.87950	mg/L	0.020469	2.33%
Mn 257.610†	122372.5	0.33183	mg/L	0.000562	0.33183	mg/L	0.000562	0.17%
Ni 231.604†	523.3	0.03230	mg/L	0.000288	0.03230	mg/L	0.000288	0.89%
Pb 220.353†	27.4	0.00524	mg/L	0.000202	0.00524	mg/L	0.000202	3.85%
Sb 206.836†	2.0	-0.00134	mg/L	0.003464	-0.00134	mg/L	0.003464	258.19%
Se 196.026†	-2.9	-0.00353	mg/L	0.002892	-0.00353	mg/L	0.002892	81.93%
Tl 190.801†	1.4	0.00104	mg/L	0.001320	0.00104	mg/L	0.001320	126.71%
V 292.402†	117.1	0.00210	mg/L	0.000271	0.00210	mg/L	0.000271	12.87%
Zn 206.200†	711.7	0.03335	mg/L	0.000656	0.03335	mg/L	0.000656	1.97%
Cd 226.502†	10.8	0.00019	mg/L	0.000062	0.00019	mg/L	0.000062	33.20%
Ti 334.940†	7333.3	0.01729	mg/L	0.000299	0.01729	mg/L	0.000299	1.73%
Ca 227.546†	763.9	4.3429	mg/L	0.09004	4.3429	mg/L	0.09004	2.07%
Na 589.592	86396.1	28.130	mg/L	0.3215	28.130	mg/L	0.3215	1.14%
K 766.490	922.0	0.73206	mg/L	0.021086	0.73206	mg/L	0.021086	2.88%

Sequence No.: 32 **Autosampler Location: 56**
Sample ID: K0834-12BPDS~SL-MW-4 **Date Collected: 5/18/2011 9:39:34 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0834-12BPDS~SL-MW-4

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD

Y 360.073	1048585.1	100.78	%	0.882			0.88%
Lu 261.542	1167488.7	102.0	%	0.74			0.73%
Ag 328.068†	118120.8	1.0959	mg/L	0.02891	1.0959	mg/L	0.02891	2.64%
Al 308.215†	368140.0	20.087	mg/L	0.5443	20.087	mg/L	0.5443	2.71%
As 188.979†	593.8	0.45748	mg/L	0.006074	0.45748	mg/L	0.006074	1.33%
Ba 233.527†	602399.2	9.1617	mg/L	0.05577	9.1617	mg/L	0.05577	0.61%
Be 313.107†	276342.0	0.22567	mg/L	0.001192	0.22567	mg/L	0.001192	0.53%
Co 228.616†	33568.3	2.3079	mg/L	0.07774	2.3079	mg/L	0.07774	3.37%
Cr 267.716†	62032.9	1.4483	mg/L	0.03767	1.4483	mg/L	0.03767	2.60%
Cu 324.752†	228174.4	1.2683	mg/L	0.00742	1.2683	mg/L	0.00742	0.59%
Fe 273.955†	182410.6	9.5373	mg/L	0.27825	9.5373	mg/L	0.27825	2.92%
Mg 279.077†	371122.0	26.231	mg/L	0.2355	26.231	mg/L	0.2355	0.90%
Mn 257.610†	1368424.8	3.7101	mg/L	0.01832	3.7101	mg/L	0.01832	0.49%
Ni 231.604†	39964.5	2.4682	mg/L	0.05864	2.4682	mg/L	0.05864	2.38%
Pb 220.353†	2481.9	0.46979	mg/L	0.004451	0.46979	mg/L	0.004451	0.95%
Sb 206.836†	901.6	0.42690	mg/L	0.006459	0.42690	mg/L	0.006459	1.51%
Se 196.026†	359.8	0.44636	mg/L	0.006132	0.44636	mg/L	0.006132	1.37%
Tl 190.801†	682.9	0.45365	mg/L	0.005955	0.45365	mg/L	0.005955	1.31%
V 292.402†	143492.0	2.2568	mg/L	0.05876	2.2568	mg/L	0.05876	2.60%
Zn 206.200†	52166.4	2.4251	mg/L	0.08624	2.4251	mg/L	0.08624	3.56%
Cd 226.502†	8870.3	0.22439	mg/L	0.008310	0.22439	mg/L	0.008310	3.70%
Ti 334.940†	33986.6	0.07982	mg/L	0.003217	0.07982	mg/L	0.003217	4.03%
Ca 227.546†	7593.3	42.958	mg/L	0.5299	42.958	mg/L	0.5299	1.23%
Na 589.592	463753.1	150.99	mg/L	0.538	150.99	mg/L	0.538	0.36%
K 766.490	34380.6	27.297	mg/L	0.4519	27.297	mg/L	0.4519	1.66%

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Sequence No.: 33 **Autosampler Location: 57**
Sample ID: K0834-13B~SL-MW-6A **Date Collected: 5/18/2011 9:43:22 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0834-13B~SL-MW-6A

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1057509.5	101.63	%	1.274				1.25%
Lu 261.542	1175733.6	102.8	%	1.33				1.30%
Ag 328.068†	59.6	0.00057	mg/L	0.000318	0.00057	mg/L	0.000318	55.68%
Al 308.215†	268960.1	14.695	mg/L	0.2747	14.695	mg/L	0.2747	1.87%
As 188.979†	0.9	0.00630	mg/L	0.001780	0.00630	mg/L	0.001780	28.27%
Ba 233.527†	3802.8	0.05785	mg/L	0.001194	0.05785	mg/L	0.001194	2.06%
Be 313.107†	-298.9	0.00045	mg/L	0.000034	0.00045	mg/L	0.000034	7.57%
Co 228.616†	194.3	0.01197	mg/L	0.000466	0.01197	mg/L	0.000466	3.89%
Cr 267.716†	33193.5	0.77496	mg/L	0.014231	0.77496	mg/L	0.014231	1.84%
Cu 324.752†	27726.2	0.15540	mg/L	0.003434	0.15540	mg/L	0.003434	2.21%
Fe 273.955†	549018.3	28.486	mg/L	0.0381	28.486	mg/L	0.0381	0.13%
Mg 279.077†	42734.4	3.0203	mg/L	0.06390	3.0203	mg/L	0.06390	2.12%
Mn 257.610†	140416.1	0.38052	mg/L	0.007722	0.38052	mg/L	0.007722	2.03%
Ni 231.604†	3847.0	0.23725	mg/L	0.003909	0.23725	mg/L	0.003909	1.65%
Pb 220.353†	413.6	0.07890	mg/L	0.001367	0.07890	mg/L	0.001367	1.73%
Sb 206.836†	39.1	0.00314	mg/L	0.001004	0.00314	mg/L	0.001004	32.04%
Se 196.026†	-6.6	0.00108	mg/L	0.009358	0.00108	mg/L	0.009358	869.18%
Tl 190.801†	-6.5	-0.00106	mg/L	0.001032	-0.00106	mg/L	0.001032	97.47%
V 292.402†	1872.2	0.03217	mg/L	0.000913	0.03217	mg/L	0.000913	2.84%
Zn 206.200†	6748.1	0.31532	mg/L	0.003132	0.31532	mg/L	0.003132	0.99%
Cd 226.502†	198.5	0.00272	mg/L	0.000115	0.00272	mg/L	0.000115	4.24%
Ti 334.940†	150434.2	0.35399	mg/L	0.009429	0.35399	mg/L	0.009429	2.66%
Ca 227.546†	1204.3	8.2757	mg/L	0.09774	8.2757	mg/L	0.09774	1.18%
Na 589.592	194852.3	63.443	mg/L	0.4982	63.443	mg/L	0.4982	0.79%
K 766.490	4289.9	3.4061	mg/L	0.03660	3.4061	mg/L	0.03660	1.07%

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Sequence No.: 34 **Autosampler Location: 58**
Sample ID: K0834-14B~SL-MW-6B **Date Collected: 5/18/2011 9:47:01 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0834-14B~SL-MW-6B

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 360.073	1265273.7	121.60	%	1.515				1.25%
Lu 261.542	1176978.7	102.9	%	1.10				1.07%
Ag 328.068†	-285.2	-0.00253	mg/L	0.000160	-0.00253	mg/L	0.000160	6.34%
Al 308.215†	1480503.4	80.890	mg/L	0.2108	80.890	mg/L	0.2108	0.26%
As 188.979†	33.2	0.04055	mg/L	0.003842	0.04055	mg/L	0.003842	9.47%
Ba 233.527†	20264.6	0.30828	mg/L	0.002642	0.30828	mg/L	0.002642	0.86%
Be 313.107†	2323.0	0.00575	mg/L	0.000029	0.00575	mg/L	0.000029	0.51%
Co 228.616†	1015.1	0.06252	mg/L	0.000745	0.06252	mg/L	0.000745	1.19%
Cr 267.716†	65051.6	1.5186	mg/L	0.00792	1.5186	mg/L	0.00792	0.52%
Cu 324.752†	88780.9	0.50007	mg/L	0.004520	0.50007	mg/L	0.004520	0.90%
Fe 273.955†	2809190.8	145.74	mg/L	0.240	145.74	mg/L	0.240	0.16%
Mg 279.077†	180728.3	12.773	mg/L	0.1071	12.773	mg/L	0.1071	0.84%
Mn 257.610†	552019.4	1.4957	mg/L	0.00302	1.4957	mg/L	0.00302	0.20%
Ni 231.604†	3041.1	0.18587	mg/L	0.001795	0.18587	mg/L	0.001795	0.97%
Pb 220.353†	1649.4	0.31573	mg/L	0.003285	0.31573	mg/L	0.003285	1.04%
Sb 206.836†	85.6	0.00285	mg/L	0.003689	0.00285	mg/L	0.003689	129.44%
Se 196.026†	-34.2	0.00530	mg/L	0.008960	0.00530	mg/L	0.008960	169.07%
Tl 190.801†	-41.4	-0.00893	mg/L	0.000639	-0.00893	mg/L	0.000639	7.16%
V 292.402†	10095.3	0.16868	mg/L	0.001096	0.16868	mg/L	0.001096	0.65%
Zn 206.200†	28237.9	1.3148	mg/L	0.01642	1.3148	mg/L	0.01642	1.25%
Cd 226.502†	673.7	0.00524	mg/L	0.000225	0.00524	mg/L	0.000225	4.30%
Ti 334.940†	835006.0	1.9650	mg/L	0.00945	1.9650	mg/L	0.00945	0.48%
Ca 227.546†	3916.2	29.773	mg/L	0.3457	29.773	mg/L	0.3457	1.16%
Na 589.592	55910.8	18.204	mg/L	0.1033	18.204	mg/L	0.1033	0.57%
K 766.490	8227.0	6.5321	mg/L	0.06002	6.5321	mg/L	0.06002	0.92%

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Sequence No.: 35 **Autosampler Location:** 59
Sample ID: K0834-15B~SL-MW-5 **Date Collected:** 5/18/2011 9:50:42 AM
Analyst: **Data Type:** Original
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0834-15B~SL-MW-5

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 360.073	1087227.4	104.49	%	1.141				1.09%
Lu 261.542	1190791.6	104.1	%	1.03				0.99%
Ag 328.068†	30.5	0.00028	mg/L	0.000328	0.00028	mg/L	0.000328	116.32%
Al 308.215†	110832.2	6.0556	mg/L	0.16760	6.0556	mg/L	0.16760	2.77%
As 188.979†	21.2	0.02041	mg/L	0.000968	0.02041	mg/L	0.000968	4.74%
Ba 233.527†	3354.1	0.05100	mg/L	0.000523	0.05100	mg/L	0.000523	1.03%
Be 313.107†	309.8	0.00044	mg/L	0.000043	0.00044	mg/L	0.000043	9.64%
Co 228.616†	656.4	0.04376	mg/L	0.000486	0.04376	mg/L	0.000486	1.11%
Cr 267.716†	18730.3	0.43708	mg/L	0.006289	0.43708	mg/L	0.006289	1.44%
Cu 324.752†	26002.4	0.14623	mg/L	0.004390	0.14623	mg/L	0.004390	3.00%
Fe 273.955†	725606.7	37.644	mg/L	0.0868	37.644	mg/L	0.0868	0.23%
Mg 279.077†	29576.4	2.0953	mg/L	0.05801	2.0953	mg/L	0.05801	2.77%
Mn 257.610†	474635.6	1.2869	mg/L	0.00543	1.2869	mg/L	0.00543	0.42%
Ni 231.604†	975.2	0.05992	mg/L	0.000813	0.05992	mg/L	0.000813	1.36%
Pb 220.353†	67.1	0.01281	mg/L	0.001867	0.01281	mg/L	0.001867	14.58%
Sb 206.836†	21.5	0.00080	mg/L	0.001829	0.00080	mg/L	0.001829	229.79%
Se 196.026†	-10.7	-0.00173	mg/L	0.002629	-0.00173	mg/L	0.002629	152.16%
Tl 190.801†	-3.3	-0.00049	mg/L	0.000470	-0.00049	mg/L	0.000470	96.03%
V 292.402†	416.0	0.00965	mg/L	0.000173	0.00965	mg/L	0.000173	1.79%
Zn 206.200†	3239.1	0.15153	mg/L	0.001273	0.15153	mg/L	0.001273	0.84%
Cd 226.502†	174.3	0.00140	mg/L	0.000049	0.00140	mg/L	0.000049	3.48%
Ti 334.940†	41137.8	0.09683	mg/L	0.001481	0.09683	mg/L	0.001481	1.53%
Ca 227.546†	1386.1	9.7886	mg/L	0.03043	9.7886	mg/L	0.03043	0.31%
Na 589.592	97587.0	31.774	mg/L	0.3861	31.774	mg/L	0.3861	1.22%
K 766.490	9405.0	7.4674	mg/L	0.04407	7.4674	mg/L	0.04407	0.59%

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Sequence No.: 36 **Autosampler Location:** 3
Sample ID: CCV **Date Collected:** 5/18/2011 9:54:23 AM
Analyst: **Data Type:** Original
Initial Sample Wt: **Initial Sample Vol:**

Dilution: **Sample Prep Vol:**

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1024618.2	98.473	%	1.0518				1.07%
Lu 261.542	1145943.1	100.2	%	0.95				0.95%
Ag 328.068†	137038.6	1.2713	mg/L	0.00622	1.2713	mg/L	0.00622	0.49%
QC value within limits for Ag 328.068 Recovery = 101.71%								
Al 308.215†	188928.0	10.292	mg/L	0.0700	10.292	mg/L	0.0700	0.68%
QC value within limits for Al 308.215 Recovery = 102.92%								
As 188.979†	644.5	0.49383	mg/L	0.006311	0.49383	mg/L	0.006311	1.28%
QC value within limits for As 188.979 Recovery = 98.77%								
Ba 233.527†	681906.5	10.371	mg/L	0.1006	10.371	mg/L	0.1006	0.97%
QC value within limits for Ba 233.527 Recovery = 103.71%								
Be 313.107†	308056.9	0.25241	mg/L	0.002170	0.25241	mg/L	0.002170	0.86%
QC value within limits for Be 313.107 Recovery = 100.96%								
Co 228.616†	38319.9	2.6342	mg/L	0.03962	2.6342	mg/L	0.03962	1.50%
QC value within limits for Co 228.616 Recovery = 105.37%								
Cr 267.716†	45260.3	1.0570	mg/L	0.00661	1.0570	mg/L	0.00661	0.63%
QC value within limits for Cr 267.716 Recovery = 105.70%								
Cu 324.752†	229261.4	1.2742	mg/L	0.00937	1.2742	mg/L	0.00937	0.74%
QC value within limits for Cu 324.752 Recovery = 101.93%								
Fe 273.955†	100047.5	5.2727	mg/L	0.04377	5.2727	mg/L	0.04377	0.83%
QC value within limits for Fe 273.955 Recovery = 105.45%								
Mg 279.077†	363897.2	25.715	mg/L	0.2404	25.715	mg/L	0.2404	0.93%
QC value within limits for Mg 279.077 Recovery = 102.86%								
Mn 257.610†	941656.7	2.5527	mg/L	0.03101	2.5527	mg/L	0.03101	1.21%
QC value within limits for Mn 257.610 Recovery = 102.11%								
Ni 231.604†	42805.5	2.6435	mg/L	0.01776	2.6435	mg/L	0.01776	0.67%
QC value within limits for Ni 231.604 Recovery = 105.74%								
Pb 220.353†	2707.8	0.51251	mg/L	0.004040	0.51251	mg/L	0.004040	0.79%
QC value within limits for Pb 220.353 Recovery = 102.50%								
Sb 206.836†	1009.9	0.48908	mg/L	0.003756	0.48908	mg/L	0.003756	0.77%
QC value within limits for Sb 206.836 Recovery = 97.82%								
Se 196.026†	404.5	0.50118	mg/L	0.006278	0.50118	mg/L	0.006278	1.25%
QC value within limits for Se 196.026 Recovery = 100.24%								
Tl 190.801†	774.6	0.51759	mg/L	0.001729	0.51759	mg/L	0.001729	0.33%
QC value within limits for Tl 190.801 Recovery = 103.52%								
V 292.402†	164333.1	2.5828	mg/L	0.01764	2.5828	mg/L	0.01764	0.68%
QC value within limits for V 292.402 Recovery = 103.31%								
Zn 206.200†	55932.2	2.5988	mg/L	0.03424	2.5988	mg/L	0.03424	1.32%
QC value within limits for Zn 206.200 Recovery = 103.95%								
Cd 226.502†	10021.4	0.25390	mg/L	0.002940	0.25390	mg/L	0.002940	1.16%
QC value within limits for Cd 226.502 Recovery = 101.56%								
Ti 334.940†	218746.2	0.51446	mg/L	0.006124	0.51446	mg/L	0.006124	1.19%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Ca 227.546†	4626.9	26.068	mg/L	0.1149	26.068	mg/L	0.1149	0.44%
QC value within limits for Ca 227.546 Recovery = 104.27%								
Na 589.592	81875.4	26.658	mg/L	0.1176	26.658	mg/L	0.1176	0.44%
QC value within limits for Na 589.592 Recovery = 106.63%								
K 766.490	33732.9	26.783	mg/L	0.1491	26.783	mg/L	0.1491	0.56%
QC value within limits for K 766.490 Recovery = 107.13%								

All analyte(s) passed QC.

Sequence No.: 37 **Autosampler Location:** 4
Sample ID: CCB **Date Collected:** 5/18/2011 9:57:58 AM
Analyst: **Data Type:** Original
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1055587.7	101.45	%	0.987				0.97%
Lu 261.542	1168565.0	102.1	%	0.70				0.68%
Ag 328.068†	66.0	0.00061	mg/L	0.000127	0.00061	mg/L	0.000127	20.85%
Al 308.215†	5.8	0.00031	mg/L	0.003410	0.00031	mg/L	0.003410	>999.9%

As 188.979†	1.1	0.00082	mg/L	0.002505	0.00082	mg/L	0.002505 306.08%
Ba 233.527†	81.0	0.00123	mg/L	0.000318	0.00123	mg/L	0.000318 25.85%
Be 313.107†	32.0	0.00003	mg/L	0.000034	0.00003	mg/L	0.000034 126.73%
Co 228.616†	8.5	0.00059	mg/L	0.000043	0.00059	mg/L	0.000043 7.29%
Cr 267.716†	4.4	0.00010	mg/L	0.000131	0.00010	mg/L	0.000131 127.70%
Cu 324.752†	84.5	0.00047	mg/L	0.000228	0.00047	mg/L	0.000228 48.46%
Fe 273.955†	87.3	0.00453	mg/L	0.001075	0.00453	mg/L	0.001075 23.71%
Mg 279.077†	128.3	0.00907	mg/L	0.004555	0.00907	mg/L	0.004555 50.25%
Mn 257.610†	128.0	0.00035	mg/L	0.000092	0.00035	mg/L	0.000092 26.40%
Ni 231.604†	7.1	0.00044	mg/L	0.000384	0.00044	mg/L	0.000384 87.98%
Pb 220.353†	-5.8	-0.00110	mg/L	0.001317	-0.00110	mg/L	0.001317 120.21%
Sb 206.836†	9.7	0.00483	mg/L	0.002884	0.00483	mg/L	0.002884 59.69%
Se 196.026†	-2.0	-0.00250	mg/L	0.006480	-0.00250	mg/L	0.006480 259.05%
Tl 190.801†	-0.4	-0.00029	mg/L	0.000735	-0.00029	mg/L	0.000735 253.69%
V 292.402†	10.3	0.00016	mg/L	0.000160	0.00016	mg/L	0.000160 99.42%
Zn 206.200†	20.1	0.00093	mg/L	0.000060	0.00093	mg/L	0.000060 6.47%
Cd 226.502†	-1.3	-0.00003	mg/L	0.000130	-0.00003	mg/L	0.000130 389.46%
Ti 334.940†	92.0	0.00022	mg/L	0.000081	0.00022	mg/L	0.000081 37.62%
Ca 227.546†	-7.6	-0.04249	mg/L	0.052980	-0.04249	mg/L	0.052980 124.69%
Na 589.592	155.7	0.05068	mg/L	0.024254	0.05068	mg/L	0.024254 47.85%
K 766.490	50.7	0.04022	mg/L	0.017201	0.04022	mg/L	0.017201 42.76%

Sequence No.: 38 **Autosampler Location: 60**
Sample ID: MB-59230~PBS **Date Collected: 5/18/2011 10:01:37 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: MB-59230~PBS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1071100.8	102.94	%	0.960				0.93%
Lu 261.542	1181258.7	103.2	%	1.15				1.11%
Ag 328.068†	55.9	0.00052	mg/L	0.000710	0.00052	mg/L	0.000710	137.24%
Al 308.215†	-282.8	-0.01545	mg/L	0.001452	-0.01545	mg/L	0.001452	9.40%
As 188.979†	1.5	0.00110	mg/L	0.000234	0.00110	mg/L	0.000234	21.31%
Ba 233.527†	16.9	0.00026	mg/L	0.000066	0.00026	mg/L	0.000066	25.73%
Be 313.107†	22.0	0.00002	mg/L	0.000025	0.00002	mg/L	0.000025	132.43%
Co 228.616†	-6.0	-0.00041	mg/L	0.000181	-0.00041	mg/L	0.000181	43.96%
Cr 267.716†	14.4	0.00034	mg/L	0.000082	0.00034	mg/L	0.000082	24.39%
Cu 324.752†	47.5	0.00026	mg/L	0.000183	0.00026	mg/L	0.000183	69.29%
Fe 273.955†	139.8	0.00724	mg/L	0.000296	0.00724	mg/L	0.000296	4.09%
Mg 279.077†	57.7	0.00408	mg/L	0.004043	0.00408	mg/L	0.004043	99.08%
Mn 257.610†	240.3	0.00065	mg/L	0.000084	0.00065	mg/L	0.000084	12.92%
Ni 231.604†	-5.8	-0.00036	mg/L	0.000305	-0.00036	mg/L	0.000305	84.65%
Pb 220.353†	-3.0	-0.00056	mg/L	0.000928	-0.00056	mg/L	0.000928	164.75%
Sb 206.836†	10.8	0.00537	mg/L	0.001121	0.00537	mg/L	0.001121	20.88%
Se 196.026†	-0.2	-0.00025	mg/L	0.005050	-0.00025	mg/L	0.005050	>999.9%
Tl 190.801†	-4.3	-0.00286	mg/L	0.000932	-0.00286	mg/L	0.000932	32.59%
V 292.402†	-28.7	-0.00045	mg/L	0.000445	-0.00045	mg/L	0.000445	98.79%
Zn 206.200†	25.4	0.00118	mg/L	0.000135	0.00118	mg/L	0.000135	11.41%
Cd 226.502†	0.8	0.00002	mg/L	0.000080	0.00002	mg/L	0.000080	431.26%
Ti 334.940†	129.3	0.00030	mg/L	0.000160	0.00030	mg/L	0.000160	52.50%
Ca 227.546†	-7.0	-0.03868	mg/L	0.037371	-0.03868	mg/L	0.037371	96.63%
Na 589.592	93.6	0.03047	mg/L	0.003997	0.03047	mg/L	0.003997	13.12%
K 766.490	41.2	0.03269	mg/L	0.040661	0.03269	mg/L	0.040661	124.37%

Sequence No.: 39 **Autosampler Location: 61**
Sample ID: LCS-59230~LCS **Date Collected: 5/18/2011 10:05:17 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: LCS-59230~LCS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1006625.0	96.744	%	0.1972				0.20%

Lu 261.542	1134679.1	99.18	%	0.320			0.32%
Ag 328.068†	123071.3	1.1418	mg/L	0.00552	1.1418 mg/L	0.00552	0.48%
Al 308.215†	170097.0	9.2657	mg/L	0.06186	9.2657 mg/L	0.06186	0.67%
As 188.979†	613.2	0.46909	mg/L	0.000260	0.46909 mg/L	0.000260	0.06%
Ba 233.527†	621982.2	9.4595	mg/L	0.05759	9.4595 mg/L	0.05759	0.61%
Be 313.107†	281414.9	0.22966	mg/L	0.001247	0.22966 mg/L	0.001247	0.54%
Co 228.616†	34530.6	2.3743	mg/L	0.01878	2.3743 mg/L	0.01878	0.79%
Cr 267.716†	40319.1	0.94156	mg/L	0.006916	0.94156 mg/L	0.006916	0.73%
Cu 324.752†	208947.5	1.1613	mg/L	0.00595	1.1613 mg/L	0.00595	0.51%
Fe 273.955†	90691.8	4.7791	mg/L	0.02654	4.7791 mg/L	0.02654	0.56%
Mg 279.077†	326900.5	23.101	mg/L	0.1579	23.101 mg/L	0.1579	0.68%
Mn 257.610†	860579.8	2.3330	mg/L	0.01602	2.3330 mg/L	0.01602	0.69%
Ni 231.604†	38327.7	2.3672	mg/L	0.01567	2.3672 mg/L	0.01567	0.66%
Pb 220.353†	2515.9	0.47591	mg/L	0.002095	0.47591 mg/L	0.002095	0.44%
Sb 206.836†	878.3	0.42562	mg/L	0.001860	0.42562 mg/L	0.001860	0.44%
Se 196.026†	356.0	0.44118	mg/L	0.002324	0.44118 mg/L	0.002324	0.53%
Tl 190.801†	710.6	0.47130	mg/L	0.003394	0.47130 mg/L	0.003394	0.72%
V 292.402†	147984.3	2.3262	mg/L	0.01553	2.3262 mg/L	0.01553	0.67%
Zn 206.200†	49621.3	2.3056	mg/L	0.02018	2.3056 mg/L	0.02018	0.88%
Cd 226.502†	9219.8	0.23365	mg/L	0.000338	0.23365 mg/L	0.000338	0.14%
Ti 334.940†	233.5	0.00023	mg/L	0.000059	0.00023 mg/L	0.000059	25.36%
Ca 227.546†	4089.0	23.044	mg/L	0.0229	23.044 mg/L	0.0229	0.10%
Na 589.592	72714.1	23.675	mg/L	0.2188	23.675 mg/L	0.2188	0.92%
K 766.490	29678.2	23.564	mg/L	0.1860	23.564 mg/L	0.1860	0.79%

Sequence No.: 40 **Autosampler Location: 62**
Sample ID: K0791-11A~DEC-030D (3.5- **Date Collected: 5/18/2011 10:08:52 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0791-11A~DEC-030D (3.5-

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1138886.7	109.46	%	0.685				0.63%
Lu 261.542	1139811.4	99.63	%	0.992				1.00%
Ag 328.068†	-766.0	-0.00654	mg/L	0.000493	-0.00654	mg/L	0.000493	7.55%
Al 308.215†	3782243.4	206.65	mg/L	2.270	206.65	mg/L	2.270	1.10%
As 188.979†	44.1	0.07677	mg/L	0.003483	0.07677	mg/L	0.003483	4.54%
Ba 233.527†	120493.7	1.8328	mg/L	0.02123	1.8328	mg/L	0.02123	1.16%
Be 313.107†	-16944.1	0.01410	mg/L	0.000079	0.01410	mg/L	0.000079	0.56%
Co 228.616†	3686.4	0.21462	mg/L	0.002266	0.21462	mg/L	0.002266	1.06%
Cr 267.716†	35860.3	0.83473	mg/L	0.010515	0.83473	mg/L	0.010515	1.26%
Cu 324.752†	124972.2	0.72370	mg/L	0.009236	0.72370	mg/L	0.009236	1.28%
Fe 273.955†	12196950.1	632.77	mg/L	1.113	632.77	mg/L	1.113	0.18%
Concentration greater than upper limit for Fe 273.955.								
Mg 279.077†	900531.5	63.670	mg/L	0.6363	63.670	mg/L	0.6363	1.00%
Mn 257.610†	4743498.8	12.858	mg/L	0.0304	12.858	mg/L	0.0304	0.24%
Ni 231.604†	6210.3	0.37225	mg/L	0.003611	0.37225	mg/L	0.003611	0.97%
Pb 220.353†	11926.3	2.2692	mg/L	0.02846	2.2692	mg/L	0.02846	1.25%
Sb 206.836†	111.8	-0.01118	mg/L	0.002208	-0.01118	mg/L	0.002208	19.74%
Se 196.026†	-150.0	0.01508	mg/L	0.003452	0.01508	mg/L	0.003452	22.89%
Tl 190.801†	-243.2	-0.03765	mg/L	0.006115	-0.03765	mg/L	0.006115	16.24%
V 292.402†	43548.2	0.71455	mg/L	0.009911	0.71455	mg/L	0.009911	1.39%
Zn 206.200†	40477.8	1.8810	mg/L	0.01554	1.8810	mg/L	0.01554	0.83%
Cd 226.502†	2638.0	0.01484	mg/L	0.000906	0.01484	mg/L	0.000906	6.10%
Ti 334.940†	6057344.5	14.254	mg/L	0.0542	14.254	mg/L	0.0542	0.38%
Ca 227.546†	593.2	37.141	mg/L	0.0972	37.141	mg/L	0.0972	0.26%
Na 589.592	7500.5	2.4421	mg/L	0.02339	2.4421	mg/L	0.02339	0.96%
K 766.490	49007.9	38.911	mg/L	0.5437	38.911	mg/L	0.5437	1.40%

Sequence No.: 41 **Autosampler Location: 63**
Sample ID: K0791-12A~DEC-029D (75-7 **Date Collected: 5/18/2011 10:12:42 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0791-12A~DEC-029D (75-7

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1063193.6	102.18	%	0.799				0.78%
Lu 261.542	1141418.6	99.77	%	0.805				0.81%
Ag 328.068†	-117.3	-0.00096	mg/L	0.000354	-0.00096	mg/L	0.000354	36.80%
Al 308.215†	1327272.0	72.518	mg/L	0.1921	72.518	mg/L	0.1921	0.26%
As 188.979†	17.6	0.02241	mg/L	0.002108	0.02241	mg/L	0.002108	9.41%
Ba 233.527†	40591.8	0.61735	mg/L	0.010035	0.61735	mg/L	0.010035	1.63%
Be 313.107†	539.4	0.00464	mg/L	0.000026	0.00464	mg/L	0.000026	0.55%
Co 228.616†	1440.6	0.09128	mg/L	0.001231	0.09128	mg/L	0.001231	1.35%
Cr 267.716†	6534.5	0.15094	mg/L	0.003190	0.15094	mg/L	0.003190	2.11%
Cu 324.752†	35386.8	0.20355	mg/L	0.003220	0.20355	mg/L	0.003220	1.58%
Fe 273.955†	2915917.4	151.27	mg/L	0.412	151.27	mg/L	0.412	0.27%
Mg 279.077†	551764.2	39.010	mg/L	0.1342	39.010	mg/L	0.1342	0.34%
Mn 257.610†	2856792.6	7.7452	mg/L	0.00717	7.7452	mg/L	0.00717	0.09%
Ni 231.604†	2942.2	0.17955	mg/L	0.002297	0.17955	mg/L	0.002297	1.28%
Pb 220.353†	225.0	0.04564	mg/L	0.000890	0.04564	mg/L	0.000890	1.95%
Sb 206.836†	30.6	-0.00004	mg/L	0.002596	-0.00004	mg/L	0.002596	>999.9%
Se 196.026†	-39.7	-0.00300	mg/L	0.002855	-0.00300	mg/L	0.002855	95.06%
Tl 190.801†	-37.0	-0.00405	mg/L	0.000836	-0.00405	mg/L	0.000836	20.63%
V 292.402†	9934.3	0.16475	mg/L	0.003961	0.16475	mg/L	0.003961	2.40%
Zn 206.200†	6917.0	0.32145	mg/L	0.003969	0.32145	mg/L	0.003969	1.23%
Cd 226.502†	545.8	0.00153	mg/L	0.000016	0.00153	mg/L	0.000016	1.04%
Ti 334.940†	911523.5	2.1447	mg/L	0.00548	2.1447	mg/L	0.00548	0.26%
Ca 227.546†	1787.7	18.121	mg/L	0.0889	18.121	mg/L	0.0889	0.49%
Na 589.592	6796.4	2.2129	mg/L	0.01428	2.2129	mg/L	0.01428	0.65%
K 766.490	11685.4	9.2779	mg/L	0.09958	9.2779	mg/L	0.09958	1.07%

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Sequence No.: 42 **Autosampler Location:** 64
Sample ID: K0802-01A~ET09-01-051111 **Date Collected:** 5/18/2011 10:16:26 AM
Analyst: **Data Type:** Original
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0802-01A~ET09-01-051111

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1001693.4	96.270	%	0.7173				0.75%
Lu 261.542	1128932.1	98.67	%	0.901				0.91%
Ag 328.068†	951.1	0.00881	mg/L	0.000722	0.00881	mg/L	0.000722	8.19%
Al 308.215†	6952.4	0.37982	mg/L	0.014998	0.37982	mg/L	0.014998	3.95%
As 188.979†	180.8	0.13692	mg/L	0.002903	0.13692	mg/L	0.002903	2.12%
Ba 233.527†	355.8	0.00541	mg/L	0.000073	0.00541	mg/L	0.000073	1.35%
Be 313.107†	20.1	0.00005	mg/L	0.000025	0.00005	mg/L	0.000025	53.30%
Co 228.616†	12.3	0.00078	mg/L	0.000222	0.00078	mg/L	0.000222	28.35%
Cr 267.716†	270.1	0.00615	mg/L	0.000294	0.00615	mg/L	0.000294	4.79%
Cu 324.752†	10053.5	0.05581	mg/L	0.000392	0.05581	mg/L	0.000392	0.70%
Fe 273.955†	23079.2	1.1974	mg/L	0.01314	1.1974	mg/L	0.01314	1.10%
Mg 279.077†	461192.9	32.576	mg/L	0.2143	32.576	mg/L	0.2143	0.66%
Mn 257.610†	22769.9	0.06075	mg/L	0.000844	0.06075	mg/L	0.000844	1.39%
Ni 231.604†	38.2	0.00225	mg/L	0.000077	0.00225	mg/L	0.000077	3.43%
Pb 220.353†	22.1	0.00421	mg/L	0.001549	0.00421	mg/L	0.001549	36.78%
Sb 206.836†	10.6	0.00467	mg/L	0.001941	0.00467	mg/L	0.001941	41.58%
Se 196.026†	9.5	0.01194	mg/L	0.004304	0.01194	mg/L	0.004304	36.04%
Tl 190.801†	-14.1	-0.00888	mg/L	0.000793	-0.00888	mg/L	0.000793	8.94%
V 292.402†	231.0	0.00369	mg/L	0.000130	0.00369	mg/L	0.000130	3.52%
Zn 206.200†	5121.8	0.23773	mg/L	0.003433	0.23773	mg/L	0.003433	1.44%
Cd 226.502†	160.9	0.00399	mg/L	0.000171	0.00399	mg/L	0.000171	4.29%
Ti 334.940†	6745.7	0.01559	mg/L	0.000640	0.01559	mg/L	0.000640	4.10%
Ca 227.546†	3067.2	17.264	mg/L	0.2014	17.264	mg/L	0.2014	1.17%
Na 589.592	817609.1	266.21	mg/L	2.357	266.21	mg/L	2.357	0.89%
K 766.490	69093.1	54.858	mg/L	0.1532	54.858	mg/L	0.1532	0.28%

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Sequence No.: 43 **Autosampler Location:** 65
Sample ID: K0802-02A~ET09-02-051111 **Date Collected:** 5/18/2011 10:20:14 AM
Analyst: **Data Type:** Original
Initial Sample Wt: **Initial Sample Vol:**

Dilution: **Sample Prep Vol:**

Mean Data: K0802-02A~ET09-02-051111

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1037742.3	99.735	%	1.0249				1.03%
Lu 261.542	1162258.9	101.6	%	1.45				1.43%
Ag 328.068†	211.9	0.00196	mg/L	0.000316	0.00196	mg/L	0.000316	16.09%
Al 308.215†	5013.3	0.27389	mg/L	0.008354	0.27389	mg/L	0.008354	3.05%
As 188.979†	73.0	0.05536	mg/L	0.002700	0.05536	mg/L	0.002700	4.88%
Ba 233.527†	142.0	0.00216	mg/L	0.000013	0.00216	mg/L	0.000013	0.59%
Be 313.107†	68.9	0.00008	mg/L	0.000004	0.00008	mg/L	0.000004	5.06%
Co 228.616†	11.4	0.00073	mg/L	0.000056	0.00073	mg/L	0.000056	7.69%
Cr 267.716†	132.0	0.00300	mg/L	0.000154	0.00300	mg/L	0.000154	5.15%
Cu 324.752†	6062.7	0.03368	mg/L	0.000831	0.03368	mg/L	0.000831	2.47%
Fe 273.955†	20841.5	1.0813	mg/L	0.01649	1.0813	mg/L	0.01649	1.53%
Mg 279.077†	248436.9	17.548	mg/L	0.3083	17.548	mg/L	0.3083	1.76%
Mn 257.610†	15186.9	0.04065	mg/L	0.000630	0.04065	mg/L	0.000630	1.55%
Ni 231.604†	25.1	0.00149	mg/L	0.000239	0.00149	mg/L	0.000239	16.05%
Pb 220.353†	16.3	0.00310	mg/L	0.000473	0.00310	mg/L	0.000473	15.26%
Sb 206.836†	7.7	0.00349	mg/L	0.001922	0.00349	mg/L	0.001922	55.07%
Se 196.026†	1.5	0.00209	mg/L	0.005583	0.00209	mg/L	0.005583	266.72%
Tl 190.801†	-10.1	-0.00640	mg/L	0.000967	-0.00640	mg/L	0.000967	15.12%
V 292.402†	130.1	0.00210	mg/L	0.000432	0.00210	mg/L	0.000432	20.53%
Zn 206.200†	3005.5	0.13950	mg/L	0.001964	0.13950	mg/L	0.001964	1.41%
Cd 226.502†	94.7	0.00232	mg/L	0.000086	0.00232	mg/L	0.000086	3.71%
Ti 334.940†	4753.3	0.01103	mg/L	0.000702	0.01103	mg/L	0.000702	6.37%
Ca 227.546†	1669.2	9.4177	mg/L	0.21894	9.4177	mg/L	0.21894	2.32%
Na 589.592	452837.2	147.44	mg/L	1.754	147.44	mg/L	1.754	1.19%
K 766.490	36705.5	29.143	mg/L	0.3653	29.143	mg/L	0.3653	1.25%

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Sequence No.: 44 **Autosampler Location: 66**
Sample ID: K0802-03A~ET09-03-051111 **Date Collected: 5/18/2011 10:23:56 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0802-03A~ET09-03-051111

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1037320.6	99.694	%	0.4233				0.42%
Lu 261.542	1157437.2	101.2	%	0.37				0.37%
Ag 328.068†	429.2	0.00398	mg/L	0.000191	0.00398	mg/L	0.000191	4.80%
Al 308.215†	6599.7	0.36055	mg/L	0.005292	0.36055	mg/L	0.005292	1.47%
As 188.979†	94.9	0.07189	mg/L	0.002129	0.07189	mg/L	0.002129	2.96%
Ba 233.527†	152.2	0.00232	mg/L	0.000026	0.00232	mg/L	0.000026	1.13%
Be 313.107†	28.9	0.00006	mg/L	0.000022	0.00006	mg/L	0.000022	37.49%
Co 228.616†	17.5	0.00113	mg/L	0.000224	0.00113	mg/L	0.000224	19.85%
Cr 267.716†	120.3	0.00269	mg/L	0.000308	0.00269	mg/L	0.000308	11.43%
Cu 324.752†	8713.6	0.04842	mg/L	0.000607	0.04842	mg/L	0.000607	1.25%
Fe 273.955†	31384.0	1.6282	mg/L	0.02606	1.6282	mg/L	0.02606	1.60%
Mg 279.077†	285653.9	20.177	mg/L	0.0470	20.177	mg/L	0.0470	0.23%
Mn 257.610†	57774.9	0.15606	mg/L	0.002685	0.15606	mg/L	0.002685	1.72%
Ni 231.604†	31.0	0.00184	mg/L	0.000325	0.00184	mg/L	0.000325	17.66%
Pb 220.353†	15.6	0.00295	mg/L	0.000870	0.00295	mg/L	0.000870	29.47%
Sb 206.836†	8.3	0.00376	mg/L	0.000456	0.00376	mg/L	0.000456	12.14%
Se 196.026†	5.8	0.00749	mg/L	0.007446	0.00749	mg/L	0.007446	99.37%
Tl 190.801†	-8.1	-0.00501	mg/L	0.003098	-0.00501	mg/L	0.003098	61.80%
V 292.402†	210.8	0.00341	mg/L	0.000239	0.00341	mg/L	0.000239	7.02%
Zn 206.200†	4414.9	0.20491	mg/L	0.003120	0.20491	mg/L	0.003120	1.52%
Cd 226.502†	152.6	0.00374	mg/L	0.000009	0.00374	mg/L	0.000009	0.24%
Ti 334.940†	7626.2	0.01775	mg/L	0.000308	0.01775	mg/L	0.000308	1.73%
Ca 227.546†	1604.2	9.0824	mg/L	0.03979	9.0824	mg/L	0.03979	0.44%
Na 589.592	497494.5	161.98	mg/L	0.823	161.98	mg/L	0.823	0.51%
K 766.490	53307.3	42.325	mg/L	0.2547	42.325	mg/L	0.2547	0.60%

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Sequence No.: 45 **Autosampler Location: 3**

Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Date Collected: 5/18/2011 10:27:37 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1059328.9	101.81	%	0.790				0.78%
Lu 261.542	1181098.9	103.2	%	0.85				0.82%
Ag 328.068†	132116.2	1.2257	mg/L	0.00814	1.2257	mg/L	0.00814	0.66%
QC value within limits for Ag 328.068 Recovery = 98.05%								
Al 308.215†	184098.9	10.029	mg/L	0.0320	10.029	mg/L	0.0320	0.32%
QC value within limits for Al 308.215 Recovery = 100.29%								
As 188.979†	625.9	0.47956	mg/L	0.007336	0.47956	mg/L	0.007336	1.53%
QC value within limits for As 188.979 Recovery = 95.91%								
Ba 233.527†	673569.4	10.244	mg/L	0.0106	10.244	mg/L	0.0106	0.10%
QC value within limits for Ba 233.527 Recovery = 102.44%								
Be 313.107†	302758.9	0.24804	mg/L	0.001089	0.24804	mg/L	0.001089	0.44%
QC value within limits for Be 313.107 Recovery = 99.22%								
Co 228.616†	37245.1	2.5603	mg/L	0.01181	2.5603	mg/L	0.01181	0.46%
QC value within limits for Co 228.616 Recovery = 102.41%								
Cr 267.716†	44155.2	1.0311	mg/L	0.00696	1.0311	mg/L	0.00696	0.67%
QC value within limits for Cr 267.716 Recovery = 103.11%								
Cu 324.752†	218743.2	1.2157	mg/L	0.00562	1.2157	mg/L	0.00562	0.46%
QC value within limits for Cu 324.752 Recovery = 97.26%								
Fe 273.955†	97459.1	5.1357	mg/L	0.01040	5.1357	mg/L	0.01040	0.20%
QC value within limits for Fe 273.955 Recovery = 102.71%								
Mg 279.077†	356252.1	25.175	mg/L	0.0374	25.175	mg/L	0.0374	0.15%
QC value within limits for Mg 279.077 Recovery = 100.70%								
Mn 257.610†	928645.7	2.5175	mg/L	0.00265	2.5175	mg/L	0.00265	0.11%
QC value within limits for Mn 257.610 Recovery = 100.70%								
Ni 231.604†	41670.5	2.5734	mg/L	0.01783	2.5734	mg/L	0.01783	0.69%
QC value within limits for Ni 231.604 Recovery = 102.94%								
Pb 220.353†	2622.8	0.49643	mg/L	0.004863	0.49643	mg/L	0.004863	0.98%
QC value within limits for Pb 220.353 Recovery = 99.29%								
Sb 206.836†	981.9	0.47541	mg/L	0.007862	0.47541	mg/L	0.007862	1.65%
QC value within limits for Sb 206.836 Recovery = 95.08%								
Se 196.026†	396.9	0.49177	mg/L	0.003512	0.49177	mg/L	0.003512	0.71%
QC value within limits for Se 196.026 Recovery = 98.35%								
Tl 190.801†	749.8	0.50095	mg/L	0.001376	0.50095	mg/L	0.001376	0.27%
QC value within limits for Tl 190.801 Recovery = 100.19%								
V 292.402†	158849.0	2.4966	mg/L	0.01417	2.4966	mg/L	0.01417	0.57%
QC value within limits for V 292.402 Recovery = 99.86%								
Zn 206.200†	54037.3	2.5108	mg/L	0.00689	2.5108	mg/L	0.00689	0.27%
QC value within limits for Zn 206.200 Recovery = 100.43%								
Cd 226.502†	9698.5	0.24572	mg/L	0.001074	0.24572	mg/L	0.001074	0.44%
QC value within limits for Cd 226.502 Recovery = 98.29%								
Ti 334.940†	209476.5	0.49265	mg/L	0.000683	0.49265	mg/L	0.000683	0.14%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Ca 227.546†	4498.6	25.346	mg/L	0.3078	25.346	mg/L	0.3078	1.21%
QC value within limits for Ca 227.546 Recovery = 101.38%								
Na 589.592	81918.2	26.672	mg/L	0.1485	26.672	mg/L	0.1485	0.56%
QC value within limits for Na 589.592 Recovery = 106.69%								
K 766.490	33702.5	26.759	mg/L	0.1301	26.759	mg/L	0.1301	0.49%
QC value within limits for K 766.490 Recovery = 107.04%								

All analyte(s) passed QC.

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Sequence No.: 46
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 5/18/2011 10:31:18 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1081088.3	103.90	%	0.453				0.44%

Lu 261.542	1173942.2	102.6	%	0.30			0.29%
Ag 328.068†	112.8	0.00104	mg/L	0.000410	0.00104	mg/L	0.000410 39.23%
Al 308.215†	-25.0	-0.00137	mg/L	0.002066	-0.00137	mg/L	0.002066 151.15%
As 188.979†	4.3	0.00328	mg/L	0.003331	0.00328	mg/L	0.003331 101.58%
Ba 233.527†	68.5	0.00104	mg/L	0.000205	0.00104	mg/L	0.000205 19.65%
Be 313.107†	56.8	0.00005	mg/L	0.000011	0.00005	mg/L	0.000011 22.88%
Co 228.616†	6.3	0.00043	mg/L	0.000448	0.00043	mg/L	0.000448 103.44%
Cr 267.716†	2.8	0.00007	mg/L	0.000072	0.00007	mg/L	0.000072 110.34%
Cu 324.752†	108.7	0.00060	mg/L	0.000124	0.00060	mg/L	0.000124 20.48%
Fe 273.955†	86.8	0.00451	mg/L	0.001157	0.00451	mg/L	0.001157 25.69%
Mg 279.077†	157.7	0.01114	mg/L	0.001294	0.01114	mg/L	0.001294 11.61%
Mn 257.610†	110.6	0.00030	mg/L	0.000043	0.00030	mg/L	0.000043 14.35%
Ni 231.604†	4.5	0.00028	mg/L	0.000249	0.00028	mg/L	0.000249 89.44%
Pb 220.353†	-10.8	-0.00205	mg/L	0.002070	-0.00205	mg/L	0.002070 101.04%
Sb 206.836†	5.8	0.00291	mg/L	0.002033	0.00291	mg/L	0.002033 69.81%
Se 196.026†	-2.3	-0.00289	mg/L	0.004234	-0.00289	mg/L	0.004234 146.67%
Tl 190.801†	1.0	0.00068	mg/L	0.001363	0.00068	mg/L	0.001363 199.82%
V 292.402†	9.0	0.00014	mg/L	0.000551	0.00014	mg/L	0.000551 389.05%
Zn 206.200†	18.4	0.00086	mg/L	0.000181	0.00086	mg/L	0.000181 21.19%
Cd 226.502†	0.2	0.00001	mg/L	0.000182	0.00001	mg/L	0.000182 >999.9%
Ti 334.940†	45.7	0.00011	mg/L	0.000094	0.00011	mg/L	0.000094 88.36%
Ca 227.546†	-9.4	-0.05270	mg/L	0.058538	-0.05270	mg/L	0.058538 111.08%
Na 589.592	193.8	0.06310	mg/L	0.014919	0.06310	mg/L	0.014919 23.64%
K 766.490	36.3	0.02886	mg/L	0.063942	0.02886	mg/L	0.063942 221.58%

Sequence No.: 47 **Autosampler Location: 67**
Sample ID: K0802-04A~ET09-04-051111 **Date Collected: 5/18/2011 10:34:57 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0802-04A~ET09-04-051111

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1028761.6	98.872	%	0.9210				0.93%
Lu 261.542	1144721.5	100.1	%	0.66				0.66%
Ag 328.068†	556.8	0.00516	mg/L	0.000315	0.00516	mg/L	0.000315	6.11%
Al 308.215†	6264.6	0.34225	mg/L	0.006667	0.34225	mg/L	0.006667	1.95%
As 188.979†	123.8	0.09381	mg/L	0.001696	0.09381	mg/L	0.001696	1.81%
Ba 233.527†	236.3	0.00360	mg/L	0.000043	0.00360	mg/L	0.000043	1.19%
Be 313.107†	56.5	0.00008	mg/L	0.000023	0.00008	mg/L	0.000023	30.25%
Co 228.616†	34.2	0.00228	mg/L	0.000115	0.00228	mg/L	0.000115	5.04%
Cr 267.716†	144.2	0.00321	mg/L	0.001143	0.00321	mg/L	0.001143	35.65%
Cu 324.752†	9652.2	0.05363	mg/L	0.000553	0.05363	mg/L	0.000553	1.03%
Fe 273.955†	30956.0	1.6060	mg/L	0.01725	1.6060	mg/L	0.01725	1.07%
Mg 279.077†	283966.9	20.059	mg/L	0.1056	20.059	mg/L	0.1056	0.53%
Mn 257.610†	139395.3	0.37741	mg/L	0.002428	0.37741	mg/L	0.002428	0.64%
Ni 231.604†	61.4	0.00372	mg/L	0.000282	0.00372	mg/L	0.000282	7.59%
Pb 220.353†	14.5	0.00273	mg/L	0.000976	0.00273	mg/L	0.000976	35.79%
Sb 206.836†	14.7	0.00692	mg/L	0.003052	0.00692	mg/L	0.003052	44.09%
Se 196.026†	11.2	0.01409	mg/L	0.008388	0.01409	mg/L	0.008388	59.53%
Tl 190.801†	-13.9	-0.00888	mg/L	0.000559	-0.00888	mg/L	0.000559	6.30%
V 292.402†	191.4	0.00312	mg/L	0.000325	0.00312	mg/L	0.000325	10.42%
Zn 206.200†	4868.1	0.22595	mg/L	0.003533	0.22595	mg/L	0.003533	1.56%
Cd 226.502†	139.3	0.00341	mg/L	0.000137	0.00341	mg/L	0.000137	4.03%
Ti 334.940†	6286.4	0.01460	mg/L	0.000872	0.01460	mg/L	0.000872	5.97%
Ca 227.546†	1631.8	9.2359	mg/L	0.08673	9.2359	mg/L	0.08673	0.94%
Na 589.592	475743.9	154.90	mg/L	2.392	154.90	mg/L	2.392	1.54%
K 766.490	58687.4	46.597	mg/L	0.7705	46.597	mg/L	0.7705	1.65%

Sequence No.: 48 **Autosampler Location: 68**
Sample ID: K0802-04ADUP~ET09-04-051 **Date Collected: 5/18/2011 10:38:37 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0802-04ADUP~ET09-04-051

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1037024.2	99.666	%	1.1957				1.20%
Lu 261.542	1156789.3	101.1	%	1.10				1.09%
Ag 328.068†	496.9	0.00460	mg/L	0.000051	0.00460	mg/L	0.000051	1.10%
Al 308.215†	5921.3	0.32350	mg/L	0.003971	0.32350	mg/L	0.003971	1.23%
As 188.979†	115.6	0.08759	mg/L	0.001968	0.08759	mg/L	0.001968	2.25%
Ba 233.527†	178.8	0.00272	mg/L	0.000061	0.00272	mg/L	0.000061	2.25%
Be 313.107†	39.2	0.00006	mg/L	0.000018	0.00006	mg/L	0.000018	31.21%
Co 228.616†	27.7	0.00183	mg/L	0.000281	0.00183	mg/L	0.000281	15.33%
Cr 267.716†	171.3	0.00384	mg/L	0.000222	0.00384	mg/L	0.000222	5.77%
Cu 324.752†	9131.0	0.05074	mg/L	0.000303	0.05074	mg/L	0.000303	0.60%
Fe 273.955†	29615.5	1.5365	mg/L	0.01391	1.5365	mg/L	0.01391	0.91%
Mg 279.077†	275079.0	19.431	mg/L	0.0668	19.431	mg/L	0.0668	0.34%
Mn 257.610†	134070.3	0.36298	mg/L	0.001477	0.36298	mg/L	0.001477	0.41%
Ni 231.604†	52.4	0.00316	mg/L	0.000083	0.00316	mg/L	0.000083	2.62%
Pb 220.353†	16.9	0.00318	mg/L	0.000744	0.00318	mg/L	0.000744	23.41%
Sb 206.836†	6.5	0.00283	mg/L	0.000638	0.00283	mg/L	0.000638	22.55%
Se 196.026†	8.0	0.01015	mg/L	0.003865	0.01015	mg/L	0.003865	38.07%
Tl 190.801†	-12.6	-0.00800	mg/L	0.003565	-0.00800	mg/L	0.003565	44.53%
V 292.402†	167.1	0.00274	mg/L	0.000493	0.00274	mg/L	0.000493	18.02%
Zn 206.200†	4652.7	0.21595	mg/L	0.001320	0.21595	mg/L	0.001320	0.61%
Cd 226.502†	128.8	0.00315	mg/L	0.000047	0.00315	mg/L	0.000047	1.48%
Ti 334.940†	5767.3	0.01339	mg/L	0.000178	0.01339	mg/L	0.000178	1.33%
Ca 227.546†	1600.7	9.0578	mg/L	0.06416	9.0578	mg/L	0.06416	0.71%
Na 589.592	468448.4	152.52	mg/L	1.896	152.52	mg/L	1.896	1.24%
K 766.490	57739.5	45.844	mg/L	0.5570	45.844	mg/L	0.5570	1.21%

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Sequence No.: 49 **Autosampler Location: 69**
Sample ID: K0802-04AMS~ET09-04-0511 **Date Collected: 5/18/2011 10:42:17 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0802-04AMS~ET09-04-0511

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1042707.2	100.21	%	0.128				0.13%
Lu 261.542	1158432.7	101.3	%	0.23				0.23%
Ag 328.068†	104783.9	0.97235	mg/L	0.007447	0.97235	mg/L	0.007447	0.77%
Al 308.215†	173250.1	9.4387	mg/L	0.10853	9.4387	mg/L	0.10853	1.15%
As 188.979†	730.0	0.55746	mg/L	0.004121	0.55746	mg/L	0.004121	0.74%
Ba 233.527†	601474.7	9.1476	mg/L	0.06539	9.1476	mg/L	0.06539	0.71%
Be 313.107†	273201.5	0.22298	mg/L	0.000260	0.22298	mg/L	0.000260	0.12%
Co 228.616†	33049.4	2.2724	mg/L	0.01343	2.2724	mg/L	0.01343	0.59%
Cr 267.716†	39583.0	0.92421	mg/L	0.009486	0.92421	mg/L	0.009486	1.03%
Cu 324.752†	209864.4	1.1664	mg/L	0.00834	1.1664	mg/L	0.00834	0.72%
Fe 273.955†	119305.5	6.2618	mg/L	0.07066	6.2618	mg/L	0.07066	1.13%
Mg 279.077†	608688.9	43.006	mg/L	0.3044	43.006	mg/L	0.3044	0.71%
Mn 257.610†	968254.5	2.6244	mg/L	0.01216	2.6244	mg/L	0.01216	0.46%
Ni 231.604†	37460.4	2.3136	mg/L	0.03755	2.3136	mg/L	0.03755	1.62%
Pb 220.353†	2412.5	0.45634	mg/L	0.001676	0.45634	mg/L	0.001676	0.37%
Sb 206.836†	860.5	0.41657	mg/L	0.001408	0.41657	mg/L	0.001408	0.34%
Se 196.026†	376.1	0.46633	mg/L	0.002759	0.46633	mg/L	0.002759	0.59%
Tl 190.801†	671.0	0.44542	mg/L	0.004477	0.44542	mg/L	0.004477	1.01%
V 292.402†	144392.8	2.2699	mg/L	0.02419	2.2699	mg/L	0.02419	1.07%
Zn 206.200†	53240.6	2.4735	mg/L	0.01104	2.4735	mg/L	0.01104	0.45%
Cd 226.502†	9051.6	0.22926	mg/L	0.000592	0.22926	mg/L	0.000592	0.26%
Ti 334.940†	5925.5	0.01344	mg/L	0.000188	0.01344	mg/L	0.000188	1.40%
Ca 227.546†	5655.0	31.908	mg/L	0.1405	31.908	mg/L	0.1405	0.44%
Na 589.592	567575.2	184.80	mg/L	2.405	184.80	mg/L	2.405	1.30%
K 766.490	91751.8	72.849	mg/L	0.9848	72.849	mg/L	0.9848	1.35%

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Sequence No.: 50 **Autosampler Location: 70**
Sample ID: K0802-04ASD~ET09-04-0511 **Date Collected: 5/18/2011 10:45:59 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0802-04ASD~ET09-04-0511

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 360.073	1076714.1	103.48	%	1.046				1.01%
Lu 261.542	1187516.3	103.8	%	1.42				1.37%
Ag 328.068†	209.5	0.00194	mg/L	0.000634	0.00194	mg/L	0.000634	32.67%
Al 308.215†	1351.4	0.07381	mg/L	0.007933	0.07381	mg/L	0.007933	10.75%
As 188.979†	27.7	0.02100	mg/L	0.001173	0.02100	mg/L	0.001173	5.59%
Ba 233.527†	441.1	0.00671	mg/L	0.000115	0.00671	mg/L	0.000115	1.72%
Be 313.107†	207.8	0.00018	mg/L	0.000030	0.00018	mg/L	0.000030	17.25%
Co 228.616†	30.1	0.00206	mg/L	0.000152	0.00206	mg/L	0.000152	7.39%
Cr 267.716†	54.9	0.00125	mg/L	0.000125	0.00125	mg/L	0.000125	10.02%
Cu 324.752†	2113.4	0.01174	mg/L	0.000480	0.01174	mg/L	0.000480	4.09%
Fe 273.955†	6538.5	0.33926	mg/L	0.007356	0.33926	mg/L	0.007356	2.17%
Mg 279.077†	60031.4	4.2406	mg/L	0.07614	4.2406	mg/L	0.07614	1.80%
Mn 257.610†	29497.6	0.07986	mg/L	0.001682	0.07986	mg/L	0.001682	2.11%
Ni 231.604†	40.2	0.00247	mg/L	0.000235	0.00247	mg/L	0.000235	9.53%
Pb 220.353†	-2.0	-0.00037	mg/L	0.001100	-0.00037	mg/L	0.001100	294.05%
Sb 206.836†	-1.8	-0.00097	mg/L	0.003393	-0.00097	mg/L	0.003393	349.96%
Se 196.026†	-4.5	-0.00557	mg/L	0.000205	-0.00557	mg/L	0.000205	3.69%
Tl 190.801†	-4.7	-0.00301	mg/L	0.000959	-0.00301	mg/L	0.000959	31.87%
V 292.402†	114.5	0.00182	mg/L	0.000759	0.00182	mg/L	0.000759	41.62%
Zn 206.200†	1051.4	0.04880	mg/L	0.000477	0.04880	mg/L	0.000477	0.98%
Cd 226.502†	34.0	0.00083	mg/L	0.000049	0.00083	mg/L	0.000049	5.89%
Ti 334.940†	1252.5	0.00291	mg/L	0.000091	0.00291	mg/L	0.000091	3.14%
Ca 227.546†	329.1	1.8631	mg/L	0.05241	1.8631	mg/L	0.05241	2.81%
Na 589.592	100907.2	32.855	mg/L	0.4004	32.855	mg/L	0.4004	1.22%
K 766.490	12525.1	9.9447	mg/L	0.17296	9.9447	mg/L	0.17296	1.74%

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Sequence No.: 51 **Autosampler Location: 71**
Sample ID: K0802-04APDS~ET09-04-051 **Date Collected: 5/18/2011 10:49:38 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0802-04APDS~ET09-04-051

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 360.073	1051709.6	101.08	%	1.072				1.06%
Lu 261.542	1163474.0	101.7	%	1.24				1.22%
Ag 328.068†	113968.3	1.0574	mg/L	0.01828	1.0574	mg/L	0.01828	1.73%
Al 308.215†	169891.6	9.2555	mg/L	0.16945	9.2555	mg/L	0.16945	1.83%
As 188.979†	700.4	0.53500	mg/L	0.008343	0.53500	mg/L	0.008343	1.56%
Ba 233.527†	596116.6	9.0661	mg/L	0.01707	9.0661	mg/L	0.01707	0.19%
Be 313.107†	270299.8	0.22061	mg/L	0.000720	0.22061	mg/L	0.000720	0.33%
Co 228.616†	32526.1	2.2364	mg/L	0.04218	2.2364	mg/L	0.04218	1.89%
Cr 267.716†	39225.5	0.91587	mg/L	0.015389	0.91587	mg/L	0.015389	1.68%
Cu 324.752†	207228.1	1.1517	mg/L	0.02190	1.1517	mg/L	0.02190	1.90%
Fe 273.955†	115831.6	6.0808	mg/L	0.10978	6.0808	mg/L	0.10978	1.81%
Mg 279.077†	582306.6	41.142	mg/L	0.0931	41.142	mg/L	0.0931	0.23%
Mn 257.610†	953149.8	2.5835	mg/L	0.00592	2.5835	mg/L	0.00592	0.23%
Ni 231.604†	37129.2	2.2931	mg/L	0.03564	2.2931	mg/L	0.03564	1.55%
Pb 220.353†	2361.1	0.44662	mg/L	0.006903	0.44662	mg/L	0.006903	1.55%
Sb 206.836†	862.5	0.41767	mg/L	0.007059	0.41767	mg/L	0.007059	1.69%
Se 196.026†	367.5	0.45559	mg/L	0.001723	0.45559	mg/L	0.001723	0.38%
Tl 190.801†	654.0	0.43418	mg/L	0.008415	0.43418	mg/L	0.008415	1.94%
V 292.402†	142894.5	2.2463	mg/L	0.03302	2.2463	mg/L	0.03302	1.47%
Zn 206.200†	52230.2	2.4266	mg/L	0.05614	2.4266	mg/L	0.05614	2.31%
Cd 226.502†	8733.8	0.22121	mg/L	0.005698	0.22121	mg/L	0.005698	2.58%
Ti 334.940†	6031.2	0.01371	mg/L	0.000204	0.01371	mg/L	0.000204	1.49%
Ca 227.546†	5502.2	31.042	mg/L	0.3400	31.042	mg/L	0.3400	1.10%
Na 589.592	535949.6	174.50	mg/L	1.114	174.50	mg/L	1.114	0.64%
K 766.490	86704.3	68.841	mg/L	0.4410	68.841	mg/L	0.4410	0.64%

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Sequence No.: 52 **Autosampler Location: 72**
Sample ID: K0802-05A~ET09-05-051111 **Date Collected: 5/18/2011 10:53:23 AM**

Analyst:
Initial Sample Wt:
Dilution:

Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: K0802-05A~ET09-05-051111

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1040506.9	100.00	%	0.674				0.67%
Lu 261.542	1151172.0	100.6	%	0.52				0.52%
Ag 328.068†	327.2	0.00303	mg/L	0.000566	0.00303	mg/L	0.000566	18.67%
Al 308.215†	1944.7	0.10624	mg/L	0.004510	0.10624	mg/L	0.004510	4.25%
As 188.979†	117.6	0.08904	mg/L	0.000315	0.08904	mg/L	0.000315	0.35%
Ba 233.527†	141.0	0.00215	mg/L	0.000114	0.00215	mg/L	0.000114	5.31%
Be 313.107†	58.2	0.00005	mg/L	0.000032	0.00005	mg/L	0.000032	58.92%
Co 228.616†	13.0	0.00087	mg/L	0.000163	0.00087	mg/L	0.000163	18.80%
Cr 267.716†	85.0	0.00186	mg/L	0.000524	0.00186	mg/L	0.000524	28.14%
Cu 324.752†	7545.3	0.04189	mg/L	0.000551	0.04189	mg/L	0.000551	1.32%
Fe 273.955†	14063.3	0.72963	mg/L	0.005702	0.72963	mg/L	0.005702	0.78%
Mg 279.077†	290794.6	20.540	mg/L	0.0491	20.540	mg/L	0.0491	0.24%
Mn 257.610†	63879.8	0.17261	mg/L	0.001491	0.17261	mg/L	0.001491	0.86%
Ni 231.604†	30.8	0.00183	mg/L	0.000308	0.00183	mg/L	0.000308	16.77%
Pb 220.353†	3.3	0.00061	mg/L	0.001055	0.00061	mg/L	0.001055	171.65%
Sb 206.836†	8.9	0.00409	mg/L	0.001717	0.00409	mg/L	0.001717	41.96%
Se 196.026†	8.7	0.01086	mg/L	0.005532	0.01086	mg/L	0.005532	50.92%
Tl 190.801†	-9.0	-0.00572	mg/L	0.002144	-0.00572	mg/L	0.002144	37.49%
V 292.402†	113.6	0.00184	mg/L	0.000280	0.00184	mg/L	0.000280	15.22%
Zn 206.200†	4304.2	0.19977	mg/L	0.002598	0.19977	mg/L	0.002598	1.30%
Cd 226.502†	87.2	0.00216	mg/L	0.000061	0.00216	mg/L	0.000061	2.82%
Ti 334.940†	1583.4	0.00353	mg/L	0.000124	0.00353	mg/L	0.000124	3.53%
Ca 227.546†	1660.2	9.3481	mg/L	0.04212	9.3481	mg/L	0.04212	0.45%
Na 589.592	512508.5	166.87	mg/L	1.804	166.87	mg/L	1.804	1.08%
K 766.490	57289.1	45.486	mg/L	0.5232	45.486	mg/L	0.5232	1.15%

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Sequence No.: 53
Sample ID: K0802-06A~ET09-06-051111
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 73
Date Collected: 5/18/2011 10:57:04 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: K0802-06A~ET09-06-051111

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1042083.9	100.15	%	1.007				1.01%
Lu 261.542	1150991.2	100.6	%	1.24				1.24%
Ag 328.068†	367.7	0.00341	mg/L	0.000199	0.00341	mg/L	0.000199	5.84%
Al 308.215†	2025.9	0.11068	mg/L	0.010392	0.11068	mg/L	0.010392	9.39%
As 188.979†	72.5	0.05490	mg/L	0.003060	0.05490	mg/L	0.003060	5.57%
Ba 233.527†	78.3	0.00119	mg/L	0.000076	0.00119	mg/L	0.000076	6.40%
Be 313.107†	20.1	0.00002	mg/L	0.000021	0.00002	mg/L	0.000021	85.25%
Co 228.616†	9.5	0.00063	mg/L	0.000333	0.00063	mg/L	0.000333	53.31%
Cr 267.716†	58.1	0.00126	mg/L	0.000303	0.00126	mg/L	0.000303	24.03%
Cu 324.752†	6255.5	0.03473	mg/L	0.000221	0.03473	mg/L	0.000221	0.64%
Fe 273.955†	12117.8	0.62869	mg/L	0.008133	0.62869	mg/L	0.008133	1.29%
Mg 279.077†	250699.0	17.708	mg/L	0.0207	17.708	mg/L	0.0207	0.12%
Mn 257.610†	34242.6	0.09232	mg/L	0.001060	0.09232	mg/L	0.001060	1.15%
Ni 231.604†	13.4	0.00077	mg/L	0.000065	0.00077	mg/L	0.000065	8.49%
Pb 220.353†	2.3	0.00044	mg/L	0.000544	0.00044	mg/L	0.000544	123.47%
Sb 206.836†	8.4	0.00392	mg/L	0.003041	0.00392	mg/L	0.003041	77.49%
Se 196.026†	8.4	0.01052	mg/L	0.002839	0.01052	mg/L	0.002839	26.99%
Tl 190.801†	-11.3	-0.00730	mg/L	0.000703	-0.00730	mg/L	0.000703	9.64%
V 292.402†	97.9	0.00158	mg/L	0.000526	0.00158	mg/L	0.000526	33.38%
Zn 206.200†	2971.0	0.13789	mg/L	0.001656	0.13789	mg/L	0.001656	1.20%
Cd 226.502†	143.4	0.00359	mg/L	0.000070	0.00359	mg/L	0.000070	1.95%
Ti 334.940†	1666.4	0.00374	mg/L	0.000049	0.00374	mg/L	0.000049	1.32%
Ca 227.546†	1343.6	7.5677	mg/L	0.09871	7.5677	mg/L	0.09871	1.30%
Na 589.592	454176.8	147.88	mg/L	1.635	147.88	mg/L	1.635	1.11%
K 766.490	37697.7	29.931	mg/L	0.2526	29.931	mg/L	0.2526	0.84%

Sequence No.: 54 **Autosampler Location:** 74
Sample ID: K0802-07A~ET09-DUP01-051 **Date Collected:** 5/18/2011 11:00:48 AM
Analyst: **Data Type:** Original
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0802-07A~ET09-DUP01-051

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1040514.0	100.00	%	1.162				1.16%
Lu 261.542	1149609.0	100.5	%	1.18				1.17%
Ag 328.068†	358.5	0.00332	mg/L	0.000746	0.00332	mg/L	0.000746	22.47%
Al 308.215†	7075.4	0.38655	mg/L	0.014520	0.38655	mg/L	0.014520	3.76%
As 188.979†	88.6	0.06713	mg/L	0.002691	0.06713	mg/L	0.002691	4.01%
Ba 233.527†	144.3	0.00220	mg/L	0.000032	0.00220	mg/L	0.000032	1.45%
Be 313.107†	45.0	0.00008	mg/L	0.000017	0.00008	mg/L	0.000017	22.75%
Co 228.616†	15.4	0.00098	mg/L	0.000395	0.00098	mg/L	0.000395	40.50%
Cr 267.716†	121.0	0.00272	mg/L	0.000484	0.00272	mg/L	0.000484	17.78%
Cu 324.752†	7162.7	0.03982	mg/L	0.000973	0.03982	mg/L	0.000973	2.44%
Fe 273.955†	32612.6	1.6920	mg/L	0.03531	1.6920	mg/L	0.03531	2.09%
Mg 279.077†	233386.3	16.485	mg/L	0.1222	16.485	mg/L	0.1222	0.74%
Mn 257.610†	54074.5	0.14613	mg/L	0.003021	0.14613	mg/L	0.003021	2.07%
Ni 231.604†	26.6	0.00157	mg/L	0.000006	0.00157	mg/L	0.000006	0.38%
Pb 220.353†	14.5	0.00275	mg/L	0.001433	0.00275	mg/L	0.001433	52.01%
Sb 206.836†	5.4	0.00234	mg/L	0.000862	0.00234	mg/L	0.000862	36.80%
Se 196.026†	2.6	0.00363	mg/L	0.006023	0.00363	mg/L	0.006023	165.99%
Tl 190.801†	-11.5	-0.00728	mg/L	0.001594	-0.00728	mg/L	0.001594	21.89%
V 292.402†	203.9	0.00330	mg/L	0.000624	0.00330	mg/L	0.000624	18.88%
Zn 206.200†	3653.5	0.16957	mg/L	0.002124	0.16957	mg/L	0.002124	1.25%
Cd 226.502†	127.6	0.00310	mg/L	0.000164	0.00310	mg/L	0.000164	5.30%
Ti 334.940†	8373.5	0.01954	mg/L	0.000547	0.01954	mg/L	0.000547	2.80%
Ca 227.546†	1206.2	6.8540	mg/L	0.13765	6.8540	mg/L	0.13765	2.01%
Na 589.592	403904.9	131.51	mg/L	1.543	131.51	mg/L	1.543	1.17%
K 766.490	48931.5	38.851	mg/L	0.4935	38.851	mg/L	0.4935	1.27%

Sequence No.: 55 **Autosampler Location:** 3
Sample ID: CCV **Date Collected:** 5/18/2011 11:04:29 AM
Analyst: **Data Type:** Original
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1055730.0	101.46	%	0.383				0.38%
Lu 261.542	1164351.5	101.8	%	0.38				0.38%
Ag 328.068†	134315.9	1.2461	mg/L	0.00847	1.2461	mg/L	0.00847	0.68%
QC value within limits for Ag 328.068 Recovery = 99.69%								
Al 308.215†	185863.7	10.125	mg/L	0.0994	10.125	mg/L	0.0994	0.98%
QC value within limits for Al 308.215 Recovery = 101.25%								
As 188.979†	635.0	0.48659	mg/L	0.002312	0.48659	mg/L	0.002312	0.48%
QC value within limits for As 188.979 Recovery = 97.32%								
Ba 233.527†	675720.1	10.277	mg/L	0.0112	10.277	mg/L	0.0112	0.11%
QC value within limits for Ba 233.527 Recovery = 102.77%								
Be 313.107†	302024.4	0.24743	mg/L	0.000446	0.24743	mg/L	0.000446	0.18%
QC value within limits for Be 313.107 Recovery = 98.97%								
Co 228.616†	36700.2	2.5229	mg/L	0.01583	2.5229	mg/L	0.01583	0.63%
QC value within limits for Co 228.616 Recovery = 100.91%								
Cr 267.716†	44936.9	1.0494	mg/L	0.00907	1.0494	mg/L	0.00907	0.86%
QC value within limits for Cr 267.716 Recovery = 104.94%								
Cu 324.752†	220036.9	1.2229	mg/L	0.00871	1.2229	mg/L	0.00871	0.71%
QC value within limits for Cu 324.752 Recovery = 97.83%								
Fe 273.955†	98260.0	5.1788	mg/L	0.04503	5.1788	mg/L	0.04503	0.87%
QC value within limits for Fe 273.955 Recovery = 103.58%								
Mg 279.077†	352736.0	24.927	mg/L	0.2100	24.927	mg/L	0.2100	0.84%
QC value within limits for Mg 279.077 Recovery = 99.71%								
Mn 257.610†	922827.8	2.5017	mg/L	0.00313	2.5017	mg/L	0.00313	0.13%

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   QC value within limits for Mn 257.610  Recovery = 100.07%
Ni 231.604†            42724.9      2.6386 mg/L       0.02342      2.6386 mg/L       0.02342   0.89%
   QC value within limits for Ni 231.604  Recovery = 105.54%
Pb 220.353†             2670.3     0.50542 mg/L      0.004823     0.50542 mg/L      0.004823   0.95%
   QC value within limits for Pb 220.353  Recovery = 101.08%
Sb 206.836†              994.9     0.48170 mg/L      0.005314     0.48170 mg/L      0.005314   1.10%
   QC value within limits for Sb 206.836  Recovery = 96.34%
Se 196.026†              399.2     0.49456 mg/L      0.006200     0.49456 mg/L      0.006200   1.25%
   QC value within limits for Se 196.026  Recovery = 98.91%
Tl 190.801†              768.0     0.51298 mg/L      0.004189     0.51298 mg/L      0.004189   0.82%
   QC value within limits for Tl 190.801  Recovery = 102.60%
V 292.402†            161796.3      2.5429 mg/L       0.02099      2.5429 mg/L       0.02099   0.83%
   QC value within limits for V 292.402  Recovery = 101.72%
Zn 206.200†            53982.4      2.5083 mg/L       0.01347      2.5083 mg/L       0.01347   0.54%
   QC value within limits for Zn 206.200  Recovery = 100.33%
Cd 226.502†             9659.7     0.24473 mg/L      0.001389     0.24473 mg/L      0.001389   0.57%
   QC value within limits for Cd 226.502  Recovery = 97.89%
Ti 334.940†           207831.2     0.48878 mg/L      0.002499     0.48878 mg/L      0.002499   0.51%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Ca 227.546†             4586.2      25.837 mg/L        0.2118      25.837 mg/L        0.2118   0.82%
   QC value within limits for Ca 227.546  Recovery = 103.35%
Na 589.592             82533.9      26.873 mg/L        0.1057      26.873 mg/L        0.1057   0.39%
   QC value within limits for Na 589.592  Recovery = 107.49%
K 766.490              33811.0      26.845 mg/L        0.1815      26.845 mg/L        0.1815   0.68%
   QC value within limits for K 766.490  Recovery = 107.38%
All analyte(s) passed QC.
User canceled analysis.
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Analysis Begun

Start Time: 5/18/2011 11:08:18 AM
Logged In Analyst: mitOptima3
Spectrometer Model: Optima 4300 DV, S/N 077N3102302Autosampler Model: AS-93plus

Plasma On Time: 5/18/2011 6:56:26 AM
Technique: ICP Continuous

Sample Information File: C:\pe\Administrator\Sample Information\0518A.sif
Batch ID: Null
Results Data Set: B11051801
Results Library: C:\pe\Administrator\Results\Results.mdb

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Sequence No.: 1
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 5/18/2011 11:08:19 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 360.073	1096829.3	105.41	%	1.101				1.04%
Lu 261.542	1185140.8	103.6	%	1.20				1.15%
Ag 328.068†	121.5	0.00112	mg/L	0.000596	0.00112	mg/L	0.000596	52.98%
Al 308.215†	-111.0	-0.00606	mg/L	0.006028	-0.00606	mg/L	0.006028	99.48%
As 188.979†	3.3	0.00251	mg/L	0.003501	0.00251	mg/L	0.003501	139.30%
Ba 233.527†	82.2	0.00125	mg/L	0.000468	0.00125	mg/L	0.000468	37.48%
Be 313.107†	25.2	0.00002	mg/L	0.000014	0.00002	mg/L	0.000014	69.52%
Co 228.616†	5.9	0.00041	mg/L	0.000157	0.00041	mg/L	0.000157	38.72%
Cr 267.716†	1.8	0.00004	mg/L	0.000074	0.00004	mg/L	0.000074	176.21%
Cu 324.752†	112.0	0.00062	mg/L	0.000161	0.00062	mg/L	0.000161	25.95%
Fe 273.955†	76.5	0.00396	mg/L	0.000793	0.00396	mg/L	0.000793	20.02%
Mg 279.077†	115.4	0.00815	mg/L	0.001626	0.00815	mg/L	0.001626	19.95%
Mn 257.610†	120.1	0.00033	mg/L	0.000089	0.00033	mg/L	0.000089	27.45%
Ni 231.604†	10.3	0.00063	mg/L	0.000267	0.00063	mg/L	0.000267	42.26%
Pb 220.353†	-3.4	-0.00064	mg/L	0.001661	-0.00064	mg/L	0.001661	257.82%
Sb 206.836†	7.8	0.00386	mg/L	0.001658	0.00386	mg/L	0.001658	42.91%
Se 196.026†	-4.4	-0.00549	mg/L	0.002899	-0.00549	mg/L	0.002899	52.85%
Tl 190.801†	1.1	0.00070	mg/L	0.000606	0.00070	mg/L	0.000606	86.76%
V 292.402†	-21.2	-0.00033	mg/L	0.000274	-0.00033	mg/L	0.000274	82.27%
Zn 206.200†	17.5	0.00081	mg/L	0.000232	0.00081	mg/L	0.000232	28.66%
Cd 226.502†	1.4	0.00004	mg/L	0.000057	0.00004	mg/L	0.000057	155.52%
Ti 334.940†	40.1	0.00009	mg/L	0.000079	0.00009	mg/L	0.000079	84.70%
Ca 227.546†	-11.3	-0.06293	mg/L	0.063639	-0.06293	mg/L	0.063639	101.12%
Na 589.592	344.1	0.11204	mg/L	0.017228	0.11204	mg/L	0.017228	15.38%
K 766.490	144.4	0.11467	mg/L	0.019127	0.11467	mg/L	0.019127	16.68%

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Sequence No.: 2
Sample ID: K0838-01A~C-110110B
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 75
Date Collected: 5/18/2011 11:11:58 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: K0838-01A~C-110110B

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 360.073	1076655.5	103.47	%	0.182				0.18%
Lu 261.542	1133544.9	99.08	%	0.199				0.20%
Ag 328.068†	-34.5	-0.00025	mg/L	0.000265	-0.00025	mg/L	0.000265	105.37%
Al 308.215†	1044349.8	57.060	mg/L	0.0640	57.060	mg/L	0.0640	0.11%
As 188.979†	109.7	0.09282	mg/L	0.006012	0.09282	mg/L	0.006012	6.48%
Ba 233.527†	187105.7	2.8450	mg/L	0.01779	2.8450	mg/L	0.01779	0.63%
Be 313.107†	-2786.3	0.00488	mg/L	0.000052	0.00488	mg/L	0.000052	1.06%
Co 228.616†	761.7	0.04427	mg/L	0.000519	0.04427	mg/L	0.000519	1.17%
Cr 267.716†	8686.9	0.20200	mg/L	0.001743	0.20200	mg/L	0.001743	0.86%
Cu 324.752†	119523.2	0.66891	mg/L	0.004751	0.66891	mg/L	0.004751	0.71%

Fe 273.955†	2080589.7	107.94	mg/L	0.127	107.94	mg/L	0.127	0.12%
Mg 279.077†	484425.5	34.234	mg/L	0.0960	34.234	mg/L	0.0960	0.28%
Mn 257.610†	1352199.2	3.6653	mg/L	0.01624	3.6653	mg/L	0.01624	0.44%
Ni 231.604†	1605.1	0.09656	mg/L	0.000367	0.09656	mg/L	0.000367	0.38%
Pb 220.353†	8615.1	1.6328	mg/L	0.01332	1.6328	mg/L	0.01332	0.82%
Sb 206.836†	47.3	0.00812	mg/L	0.003853	0.00812	mg/L	0.003853	47.47%
Se 196.026†	-11.3	0.01430	mg/L	0.009231	0.01430	mg/L	0.009231	64.53%
Tl 190.801†	-75.2	-0.01905	mg/L	0.004067	-0.01905	mg/L	0.004067	21.35%
V 292.402†	7195.0	0.11724	mg/L	0.000798	0.11724	mg/L	0.000798	0.68%
Zn 206.200†	56459.3	2.6209	mg/L	0.01679	2.6209	mg/L	0.01679	0.64%
Cd 226.502†	673.0	0.00806	mg/L	0.000024	0.00806	mg/L	0.000024	0.30%
Ti 334.940†	1551177.1	3.6521	mg/L	0.01718	3.6521	mg/L	0.01718	0.47%
Ca 227.546†	28646.5	166.45	mg/L	1.143	166.45	mg/L	1.143	0.69%
Na 589.592	9323.7	3.0357	mg/L	0.04018	3.0357	mg/L	0.04018	1.32%
K 766.490	109671.6	87.077	mg/L	1.1070	87.077	mg/L	1.1070	1.27%

Sequence No.: 3 **Autosampler Location: 76**
Sample ID: K0839-01A~C-101310A **Date Collected: 5/18/2011 11:15:40 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0839-01A~C-101310A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1097654.2	105.49	%	1.706				1.62%
Lu 261.542	1155265.8	101.0	%	1.40				1.38%
Ag 328.068†	24.8	0.00028	mg/L	0.000072	0.00028	mg/L	0.000072	25.83%
Al 308.215†	810165.6	44.265	mg/L	0.0554	44.265	mg/L	0.0554	0.13%
As 188.979†	74.7	0.06447	mg/L	0.002574	0.06447	mg/L	0.002574	3.99%
Ba 233.527†	53260.5	0.80990	mg/L	0.012884	0.80990	mg/L	0.012884	1.59%
Be 313.107†	-1197.3	0.00481	mg/L	0.000019	0.00481	mg/L	0.000019	0.40%
Co 228.616†	625.7	0.03631	mg/L	0.000521	0.03631	mg/L	0.000521	1.44%
Cr 267.716†	6282.9	0.14610	mg/L	0.002078	0.14610	mg/L	0.002078	1.42%
Cu 324.752†	101820.9	0.56985	mg/L	0.007974	0.56985	mg/L	0.007974	1.40%
Fe 273.955†	1773799.0	92.023	mg/L	0.1971	92.023	mg/L	0.1971	0.21%
Mg 279.077†	362840.9	25.641	mg/L	0.0587	25.641	mg/L	0.0587	0.23%
Mn 257.610†	978380.9	2.6519	mg/L	0.00700	2.6519	mg/L	0.00700	0.26%
Ni 231.604†	1211.7	0.07272	mg/L	0.000753	0.07272	mg/L	0.000753	1.04%
Pb 220.353†	6167.3	1.1691	mg/L	0.01359	1.1691	mg/L	0.01359	1.16%
Sb 206.836†	32.2	0.00376	mg/L	0.002896	0.00376	mg/L	0.002896	76.93%
Se 196.026†	-14.4	0.00752	mg/L	0.011546	0.00752	mg/L	0.011546	153.61%
Tl 190.801†	-57.0	-0.01283	mg/L	0.000046	-0.01283	mg/L	0.000046	0.36%
V 292.402†	5454.8	0.08934	mg/L	0.001741	0.08934	mg/L	0.001741	1.95%
Zn 206.200†	39193.0	1.8194	mg/L	0.03016	1.8194	mg/L	0.03016	1.66%
Cd 226.502†	537.6	0.00597	mg/L	0.000127	0.00597	mg/L	0.000127	2.13%
Ti 334.940†	1256354.5	2.9577	mg/L	0.01195	2.9577	mg/L	0.01195	0.40%
Ca 227.546†	19255.3	112.92	mg/L	0.930	112.92	mg/L	0.930	0.82%
Na 589.592	8136.1	2.6491	mg/L	0.01632	2.6491	mg/L	0.01632	0.62%
K 766.490	89019.2	70.679	mg/L	0.6383	70.679	mg/L	0.6383	0.90%

Sequence No.: 4 **Autosampler Location: 77**
Sample ID: K0840-01A~C-110110A **Date Collected: 5/18/2011 11:19:25 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0840-01A~C-110110A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1092700.7	105.02	%	0.829				0.79%
Lu 261.542	1162641.3	101.6	%	0.67				0.66%
Ag 328.068†	141.0	0.00136	mg/L	0.000122	0.00136	mg/L	0.000122	8.96%
Al 308.215†	787815.5	43.044	mg/L	0.2372	43.044	mg/L	0.2372	0.55%
As 188.979†	83.6	0.07132	mg/L	0.001077	0.07132	mg/L	0.001077	1.51%
Ba 233.527†	58081.1	0.88320	mg/L	0.004933	0.88320	mg/L	0.004933	0.56%
Be 313.107†	-2217.2	0.00383	mg/L	0.000042	0.00383	mg/L	0.000042	1.10%

Co 228.616†	609.9	0.03544	mg/L	0.000365	0.03544	mg/L	0.000365	1.03%
Cr 267.716†	7771.9	0.18079	mg/L	0.000943	0.18079	mg/L	0.000943	0.52%
Cu 324.752†	112261.0	0.62767	mg/L	0.002203	0.62767	mg/L	0.002203	0.35%
Fe 273.955†	1698977.2	88.142	mg/L	0.6163	88.142	mg/L	0.6163	0.70%
Mg 279.077†	344441.6	24.344	mg/L	0.1630	24.344	mg/L	0.1630	0.67%
Mn 257.610†	1125151.6	3.0500	mg/L	0.01943	3.0500	mg/L	0.01943	0.64%
Ni 231.604†	1328.3	0.07999	mg/L	0.000286	0.07999	mg/L	0.000286	0.36%
Pb 220.353†	7350.5	1.3928	mg/L	0.00755	1.3928	mg/L	0.00755	0.54%
Sb 206.836†	36.0	0.00534	mg/L	0.002052	0.00534	mg/L	0.002052	38.41%
Se 196.026†	-10.4	0.01031	mg/L	0.001813	0.01031	mg/L	0.001813	17.59%
Tl 190.801†	-55.7	-0.01259	mg/L	0.002055	-0.01259	mg/L	0.002055	16.32%
V 292.402†	5813.9	0.09487	mg/L	0.000733	0.09487	mg/L	0.000733	0.77%
Zn 206.200†	47453.7	2.2029	mg/L	0.01208	2.2029	mg/L	0.01208	0.55%
Cd 226.502†	580.9	0.00739	mg/L	0.000113	0.00739	mg/L	0.000113	1.52%
Ti 334.940†	1223729.8	2.8812	mg/L	0.02532	2.8812	mg/L	0.02532	0.88%
Ca 227.546†	22568.4	131.29	mg/L	0.315	131.29	mg/L	0.315	0.24%
Na 589.592	7718.4	2.5131	mg/L	0.02385	2.5131	mg/L	0.02385	0.95%
K 766.490	63112.5	50.110	mg/L	0.5742	50.110	mg/L	0.5742	1.15%

Sequence No.: 5 **Autosampler Location: 78**
Sample ID: K0841-01A~C-102910A **Date Collected: 5/18/2011 11:23:07 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0841-01A~C-102910A

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1112296.1	106.90	%	0.673				0.63%
Lu 261.542	1152277.4	100.7	%	0.72				0.71%
Ag 328.068†	92.2	0.00094	mg/L	0.000277	0.00094	mg/L	0.000277	29.42%
Al 308.215†	1248776.0	68.229	mg/L	0.4134	68.229	mg/L	0.4134	0.61%
As 188.979†	118.2	0.10115	mg/L	0.002608	0.10115	mg/L	0.002608	2.58%
Ba 233.527†	77243.0	1.1746	mg/L	0.01127	1.1746	mg/L	0.01127	0.96%
Be 313.107†	-2833.3	0.00628	mg/L	0.000116	0.00628	mg/L	0.000116	1.84%
Co 228.616†	955.1	0.05579	mg/L	0.000566	0.05579	mg/L	0.000566	1.01%
Cr 267.716†	9495.6	0.22082	mg/L	0.003270	0.22082	mg/L	0.003270	1.48%
Cu 324.752†	136760.5	0.76587	mg/L	0.008368	0.76587	mg/L	0.008368	1.09%
Fe 273.955†	2580191.9	133.86	mg/L	0.395	133.86	mg/L	0.395	0.29%
Mg 279.077†	534668.5	37.784	mg/L	0.1004	37.784	mg/L	0.1004	0.27%
Mn 257.610†	1465329.4	3.9719	mg/L	0.01369	3.9719	mg/L	0.01369	0.34%
Ni 231.604†	1957.1	0.11776	mg/L	0.000859	0.11776	mg/L	0.000859	0.73%
Pb 220.353†	9862.8	1.8695	mg/L	0.01500	1.8695	mg/L	0.01500	0.80%
Sb 206.836†	48.9	0.00610	mg/L	0.001331	0.00610	mg/L	0.001331	21.82%
Se 196.026†	-12.9	0.02028	mg/L	0.004130	0.02028	mg/L	0.004130	20.36%
Tl 190.801†	-86.3	-0.02017	mg/L	0.005427	-0.02017	mg/L	0.005427	26.91%
V 292.402†	8984.4	0.14640	mg/L	0.001875	0.14640	mg/L	0.001875	1.28%
Zn 206.200†	60915.5	2.8278	mg/L	0.02491	2.8278	mg/L	0.02491	0.88%
Cd 226.502†	824.1	0.00975	mg/L	0.000141	0.00975	mg/L	0.000141	1.45%
Ti 334.940†	1865214.6	4.3912	mg/L	0.01585	4.3912	mg/L	0.01585	0.36%
Ca 227.546†	30845.0	180.16	mg/L	1.944	180.16	mg/L	1.944	1.08%
Na 589.592	11179.8	3.6401	mg/L	0.01227	3.6401	mg/L	0.01227	0.34%
K 766.490	122522.2	97.280	mg/L	0.8956	97.280	mg/L	0.8956	0.92%

Sequence No.: 6 **Autosampler Location: 102**
Sample ID: K0791-11A~DEC-030D 20xFe **Date Collected: 5/18/2011 11:26:49 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0791-11A~DEC-030D 20xFe

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1103560.2	106.06	%	0.768				0.72%
Lu 261.542	1192894.4	104.3	%	0.62				0.60%
Ag 328.068†	-16.8	-0.00013	mg/L	0.000223	-0.00013	mg/L	0.000223	175.57%
Al 308.215†	189555.4	10.357	mg/L	0.0082	10.357	mg/L	0.0082	0.08%

As 188.979†	3.6	0.00505 mg/L	0.002217	0.00505 mg/L	0.002217	43.90%
Ba 233.527†	6062.1	0.09221 mg/L	0.000713	0.09221 mg/L	0.000713	0.77%
Be 313.107†	-875.1	0.00067 mg/L	0.000034	0.00067 mg/L	0.000034	5.09%
Co 228.616†	195.6	0.01139 mg/L	0.000187	0.01139 mg/L	0.000187	1.64%
Cr 267.716†	1831.3	0.04262 mg/L	0.000534	0.04262 mg/L	0.000534	1.25%
Cu 324.752†	6069.8	0.03536 mg/L	0.000033	0.03536 mg/L	0.000033	0.09%
Fe 273.955†	681054.6	35.332 mg/L	0.0557	35.332 mg/L	0.0557	0.16%
Mg 279.077†	48347.5	3.4182 mg/L	0.00451	3.4182 mg/L	0.00451	0.13%
Mn 257.610†	244961.5	0.66399 mg/L	0.002099	0.66399 mg/L	0.002099	0.32%
Ni 231.604†	343.7	0.02064 mg/L	0.000185	0.02064 mg/L	0.000185	0.90%
Pb 220.353†	635.3	0.12082 mg/L	0.000202	0.12082 mg/L	0.000202	0.17%
Sb 206.836†	3.7	-0.00168 mg/L	0.001829	-0.00168 mg/L	0.001829	108.74%
Se 196.026†	-13.9	-0.00598 mg/L	0.004464	-0.00598 mg/L	0.004464	74.66%
Tl 190.801†	-14.5	-0.00339 mg/L	0.001958	-0.00339 mg/L	0.001958	57.70%
V 292.402†	2215.7	0.03658 mg/L	0.000375	0.03658 mg/L	0.000375	1.03%
Zn 206.200†	2105.0	0.09781 mg/L	0.000684	0.09781 mg/L	0.000684	0.70%
Cd 226.502†	141.3	0.00069 mg/L	0.000012	0.00069 mg/L	0.000012	1.69%
Ti 334.940†	299640.3	0.70512 mg/L	0.002969	0.70512 mg/L	0.002969	0.42%
Ca 227.546†	22.4	2.0140 mg/L	0.06221	2.0140 mg/L	0.06221	3.09%
Na 589.592	477.6	0.15549 mg/L	0.006722	0.15549 mg/L	0.006722	4.32%
K 766.490	2424.9	1.9253 mg/L	0.03448	1.9253 mg/L	0.03448	1.79%

Sequence No.: 7 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 5/18/2011 11:30:31 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1056763.8	101.56	%	0.513				0.51%
Lu 261.542	1158810.9	101.3	%	0.77				0.76%
Ag 328.068†	135574.9	1.2578	mg/L	0.00804	1.2578	mg/L	0.00804	0.64%
QC value within limits for Ag 328.068 Recovery = 100.62%								
Al 308.215†	186644.4	10.167	mg/L	0.0622	10.167	mg/L	0.0622	0.61%
QC value within limits for Al 308.215 Recovery = 101.67%								
As 188.979†	637.9	0.48883	mg/L	0.002659	0.48883	mg/L	0.002659	0.54%
QC value within limits for As 188.979 Recovery = 97.77%								
Ba 233.527†	680657.4	10.352	mg/L	0.0211	10.352	mg/L	0.0211	0.20%
QC value within limits for Ba 233.527 Recovery = 103.52%								
Be 313.107†	302016.2	0.24743	mg/L	0.001854	0.24743	mg/L	0.001854	0.75%
QC value within limits for Be 313.107 Recovery = 98.97%								
Co 228.616†	36437.7	2.5048	mg/L	0.00786	2.5048	mg/L	0.00786	0.31%
QC value within limits for Co 228.616 Recovery = 100.19%								
Cr 267.716†	45323.7	1.0584	mg/L	0.00508	1.0584	mg/L	0.00508	0.48%
QC value within limits for Cr 267.716 Recovery = 105.84%								
Cu 324.752†	220646.5	1.2263	mg/L	0.00673	1.2263	mg/L	0.00673	0.55%
QC value within limits for Cu 324.752 Recovery = 98.10%								
Fe 273.955†	98807.8	5.2080	mg/L	0.02107	5.2080	mg/L	0.02107	0.40%
QC value within limits for Fe 273.955 Recovery = 104.16%								
Mg 279.077†	353713.9	24.996	mg/L	0.1006	24.996	mg/L	0.1006	0.40%
QC value within limits for Mg 279.077 Recovery = 99.98%								
Mn 257.610†	925240.3	2.5083	mg/L	0.00657	2.5083	mg/L	0.00657	0.26%
QC value within limits for Mn 257.610 Recovery = 100.33%								
Ni 231.604†	43220.8	2.6692	mg/L	0.01923	2.6692	mg/L	0.01923	0.72%
QC value within limits for Ni 231.604 Recovery = 106.77%								
Pb 220.353†	2675.5	0.50641	mg/L	0.005973	0.50641	mg/L	0.005973	1.18%
QC value within limits for Pb 220.353 Recovery = 101.28%								
Sb 206.836†	1001.8	0.48505	mg/L	0.003688	0.48505	mg/L	0.003688	0.76%
QC value within limits for Sb 206.836 Recovery = 97.01%								
Se 196.026†	403.9	0.50043	mg/L	0.006656	0.50043	mg/L	0.006656	1.33%
QC value within limits for Se 196.026 Recovery = 100.09%								
Tl 190.801†	768.3	0.51320	mg/L	0.001621	0.51320	mg/L	0.001621	0.32%
QC value within limits for Tl 190.801 Recovery = 102.64%								
V 292.402†	163487.5	2.5695	mg/L	0.01924	2.5695	mg/L	0.01924	0.75%
QC value within limits for V 292.402 Recovery = 102.78%								
Zn 206.200†	53766.0	2.4983	mg/L	0.00706	2.4983	mg/L	0.00706	0.28%
QC value within limits for Zn 206.200 Recovery = 99.93%								

Cd 226.502†	9678.1	0.24520	mg/L	0.000531	0.24520	mg/L	0.000531	0.22%
QC value within limits for Cd 226.502 Recovery = 98.08%								
Ti 334.940†	207685.0	0.48843	mg/L	0.002139	0.48843	mg/L	0.002139	0.44%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Ca 227.546†	4597.5	25.900	mg/L	0.3266	25.900	mg/L	0.3266	1.26%
QC value within limits for Ca 227.546 Recovery = 103.60%								
Na 589.592	81251.3	26.455	mg/L	0.2668	26.455	mg/L	0.2668	1.01%
QC value within limits for Na 589.592 Recovery = 105.82%								
K 766.490	33262.6	26.410	mg/L	0.2173	26.410	mg/L	0.2173	0.82%
QC value within limits for K 766.490 Recovery = 105.64%								

All analyte(s) passed QC.

Sequence No.: 8 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 5/18/2011 11:34:13 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1084828.9	104.26	%	0.925				0.89%
Lu 261.542	1168633.0	102.1	%	1.17				1.15%
Ag 328.068†	72.1	0.00067	mg/L	0.000295	0.00067	mg/L	0.000295	44.14%
Al 308.215†	-128.3	-0.00701	mg/L	0.002108	-0.00701	mg/L	0.002108	30.06%
As 188.979†	2.7	0.00207	mg/L	0.000905	0.00207	mg/L	0.000905	43.75%
Ba 233.527†	119.7	0.00182	mg/L	0.000720	0.00182	mg/L	0.000720	39.53%
Be 313.107†	53.6	0.00004	mg/L	0.000050	0.00004	mg/L	0.000050	113.50%
Co 228.616†	6.5	0.00044	mg/L	0.000103	0.00044	mg/L	0.000103	23.07%
Cr 267.716†	8.7	0.00020	mg/L	0.000136	0.00020	mg/L	0.000136	67.18%
Cu 324.752†	149.6	0.00083	mg/L	0.000228	0.00083	mg/L	0.000228	27.47%
Fe 273.955†	113.0	0.00588	mg/L	0.001105	0.00588	mg/L	0.001105	18.80%
Mg 279.077†	90.8	0.00642	mg/L	0.005166	0.00642	mg/L	0.005166	80.51%
Mn 257.610†	186.8	0.00051	mg/L	0.000175	0.00051	mg/L	0.000175	34.50%
Ni 231.604†	7.0	0.00043	mg/L	0.000248	0.00043	mg/L	0.000248	57.17%
Pb 220.353†	-5.6	-0.00107	mg/L	0.002061	-0.00107	mg/L	0.002061	192.97%
Sb 206.836†	4.8	0.00239	mg/L	0.001323	0.00239	mg/L	0.001323	55.26%
Se 196.026†	-0.3	-0.00032	mg/L	0.006527	-0.00032	mg/L	0.006527	>999.9%
Tl 190.801†	-0.5	-0.00032	mg/L	0.002918	-0.00032	mg/L	0.002918	923.69%
V 292.402†	30.2	0.00047	mg/L	0.000244	0.00047	mg/L	0.000244	51.43%
Zn 206.200†	31.5	0.00146	mg/L	0.000186	0.00146	mg/L	0.000186	12.73%
Cd 226.502†	2.2	0.00006	mg/L	0.000087	0.00006	mg/L	0.000087	157.79%
Ti 334.940†	122.3	0.00029	mg/L	0.000142	0.00029	mg/L	0.000142	49.34%
Ca 227.546†	-13.0	-0.07277	mg/L	0.025605	-0.07277	mg/L	0.025605	35.19%
Na 589.592	136.0	0.04429	mg/L	0.007619	0.04429	mg/L	0.007619	17.20%
K 766.490	105.0	0.08334	mg/L	0.024893	0.08334	mg/L	0.024893	29.87%

Sequence No.: 9 **Autosampler Location: 79**
Sample ID: MB-59229~PBW **Date Collected: 5/18/2011 11:37:52 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: MB-59229~PBW

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1101090.7	105.82	%	0.217				0.21%
Lu 261.542	1186740.2	103.7	%	0.36				0.34%
Ag 328.068†	100.1	0.00093	mg/L	0.000486	0.00093	mg/L	0.000486	52.50%
Al 308.215†	-149.7	-0.00817	mg/L	0.005651	-0.00817	mg/L	0.005651	69.12%
As 188.979†	0.7	0.00050	mg/L	0.002112	0.00050	mg/L	0.002112	426.21%
Ba 233.527†	23.3	0.00035	mg/L	0.000088	0.00035	mg/L	0.000088	24.96%
Be 313.107†	12.6	0.00001	mg/L	0.000022	0.00001	mg/L	0.000022	201.53%
Co 228.616†	6.1	0.00042	mg/L	0.000367	0.00042	mg/L	0.000367	87.17%
Cr 267.716†	-3.4	-0.00008	mg/L	0.000066	-0.00008	mg/L	0.000066	83.84%
Cu 324.752†	138.2	0.00077	mg/L	0.000122	0.00077	mg/L	0.000122	15.84%
Fe 273.955†	87.5	0.00453	mg/L	0.000135	0.00453	mg/L	0.000135	2.98%

Mg 279.077†	12.1	0.00085	mg/L	0.002850	0.00085	mg/L	0.002850 334.04%
Mn 257.610†	64.9	0.00018	mg/L	0.000029	0.00018	mg/L	0.000029 16.54%
Ni 231.604†	-3.3	-0.00020	mg/L	0.000180	-0.00020	mg/L	0.000180 89.46%
Pb 220.353†	-7.2	-0.00137	mg/L	0.001562	-0.00137	mg/L	0.001562 114.21%
Sb 206.836†	3.3	0.00164	mg/L	0.002271	0.00164	mg/L	0.002271 138.67%
Se 196.026†	-3.4	-0.00419	mg/L	0.001469	-0.00419	mg/L	0.001469 35.04%
Tl 190.801†	-4.0	-0.00265	mg/L	0.002743	-0.00265	mg/L	0.002743 103.35%
V 292.402†	-26.0	-0.00041	mg/L	0.000338	-0.00041	mg/L	0.000338 82.71%
Zn 206.200†	0.1	0.00000	mg/L	0.000120	0.00000	mg/L	0.000120 >999.9%
Cd 226.502†	3.9	0.00010	mg/L	0.000131	0.00010	mg/L	0.000131 133.50%
Ti 334.940†	150.3	0.00035	mg/L	0.000057	0.00035	mg/L	0.000057 16.23%
Ca 227.546†	-0.9	-0.00505	mg/L	0.065703	-0.00505	mg/L	0.065703 >999.9%
Na 589.592	60.3	0.01962	mg/L	0.005891	0.01962	mg/L	0.005891 30.02%
K 766.490	57.4	0.04558	mg/L	0.085608	0.04558	mg/L	0.085608 187.82%

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Sequence No.: 10 **Autosampler Location: 80**
Sample ID: LCS-59229~LCS **Date Collected: 5/18/2011 11:41:32 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: LCS-59229~LCS

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1076131.4	103.42	%	0.775				0.75%
Lu 261.542	1175168.0	102.7	%	0.75				0.73%
Ag 328.068†	121710.5	1.1291	mg/L	0.01133	1.1291	mg/L	0.01133	1.00%
Al 308.215†	164571.2	8.9647	mg/L	0.09036	8.9647	mg/L	0.09036	1.01%
As 188.979†	591.2	0.45227	mg/L	0.002004	0.45227	mg/L	0.002004	0.44%
Ba 233.527†	589479.3	8.9652	mg/L	0.03165	8.9652	mg/L	0.03165	0.35%
Be 313.107†	265014.8	0.21627	mg/L	0.001686	0.21627	mg/L	0.001686	0.78%
Co 228.616†	31521.6	2.1674	mg/L	0.00996	2.1674	mg/L	0.00996	0.46%
Cr 267.716†	39193.2	0.91529	mg/L	0.010262	0.91529	mg/L	0.010262	1.12%
Cu 324.752†	193709.7	1.0766	mg/L	0.00904	1.0766	mg/L	0.00904	0.84%
Fe 273.955†	86905.7	4.5805	mg/L	0.04311	4.5805	mg/L	0.04311	0.94%
Mg 279.077†	309841.1	21.895	mg/L	0.2203	21.895	mg/L	0.2203	1.01%
Mn 257.610†	799122.3	2.1663	mg/L	0.01181	2.1663	mg/L	0.01181	0.55%
Ni 231.604†	38060.2	2.3507	mg/L	0.03916	2.3507	mg/L	0.03916	1.67%
Pb 220.353†	2409.8	0.45588	mg/L	0.002131	0.45588	mg/L	0.002131	0.47%
Sb 206.836†	885.9	0.42973	mg/L	0.002004	0.42973	mg/L	0.002004	0.47%
Se 196.026†	358.3	0.44403	mg/L	0.004566	0.44403	mg/L	0.004566	1.03%
Tl 190.801†	698.1	0.46299	mg/L	0.004057	0.46299	mg/L	0.004057	0.88%
V 292.402†	143519.3	2.2560	mg/L	0.02686	2.2560	mg/L	0.02686	1.19%
Zn 206.200†	46503.5	2.1608	mg/L	0.01077	2.1608	mg/L	0.01077	0.50%
Cd 226.502†	8807.8	0.22321	mg/L	0.002272	0.22321	mg/L	0.002272	1.02%
Ti 334.940†	185.4	0.00014	mg/L	0.000136	0.00014	mg/L	0.000136	100.15%
Ca 227.546†	3950.7	22.261	mg/L	0.1624	22.261	mg/L	0.1624	0.73%
Na 589.592	72837.8	23.716	mg/L	0.0311	23.716	mg/L	0.0311	0.13%
K 766.490	29512.6	23.432	mg/L	0.0035	23.432	mg/L	0.0035	0.01%

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Sequence No.: 11 **Autosampler Location: 81**
Sample ID: K0834-01C~SL-MW-12 **Date Collected: 5/18/2011 11:45:13 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0834-01C~SL-MW-12

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1084340.1	104.21	%	1.608				1.54%
Lu 261.542	1179195.2	103.1	%	1.50				1.46%
Ag 328.068†	84.9	0.00079	mg/L	0.000387	0.00079	mg/L	0.000387	49.20%
Al 308.215†	227.5	0.01243	mg/L	0.007463	0.01243	mg/L	0.007463	60.06%
As 188.979†	-3.7	-0.00260	mg/L	0.002271	-0.00260	mg/L	0.002271	87.46%
Ba 233.527†	3614.5	0.05496	mg/L	0.000906	0.05496	mg/L	0.000906	1.65%
Be 313.107†	71.7	0.00006	mg/L	0.000037	0.00006	mg/L	0.000037	63.75%
Co 228.616†	8.2	0.00056	mg/L	0.000150	0.00056	mg/L	0.000150	26.65%

Cr 267.716†	292.6	0.00676	mg/L	0.000140	0.00676	mg/L	0.000140	2.06%
Cu 324.752†	590.4	0.00327	mg/L	0.000137	0.00327	mg/L	0.000137	4.17%
Fe 273.955†	581.8	0.03022	mg/L	0.000673	0.03022	mg/L	0.000673	2.23%
Mg 279.077†	34081.7	2.4087	mg/L	0.04197	2.4087	mg/L	0.04197	1.74%
Mn 257.610†	109909.0	0.29799	mg/L	0.000599	0.29799	mg/L	0.000599	0.20%
Ni 231.604†	215.0	0.01328	mg/L	0.000213	0.01328	mg/L	0.000213	1.60%
Pb 220.353†	-7.2	-0.00136	mg/L	0.000902	-0.00136	mg/L	0.000902	66.11%
Sb 206.836†	1.3	0.00049	mg/L	0.000298	0.00049	mg/L	0.000298	60.82%
Se 196.026†	-2.6	-0.00386	mg/L	0.003981	-0.00386	mg/L	0.003981	103.24%
Tl 190.801†	-5.5	-0.00355	mg/L	0.002893	-0.00355	mg/L	0.002893	81.59%
V 292.402†	11.0	0.00021	mg/L	0.000495	0.00021	mg/L	0.000495	236.93%
Zn 206.200†	729.7	0.03389	mg/L	0.000417	0.03389	mg/L	0.000417	1.23%
Cd 226.502†	29.1	0.00074	mg/L	0.000009	0.00074	mg/L	0.000009	1.19%
Ti 334.940†	-40.3	0.00005	mg/L	0.000044	0.00005	mg/L	0.000044	96.05%
Ca 227.546†	2494.2	13.991	mg/L	0.1640	13.991	mg/L	0.1640	1.17%
Na 589.592	122710.0	39.954	mg/L	0.3729	39.954	mg/L	0.3729	0.93%
K 766.490	3795.0	3.0131	mg/L	0.04306	3.0131	mg/L	0.04306	1.43%

Sequence No.: 12 **Autosampler Location: 82**
Sample ID: K0834-02C~SL-MW-62 **Date Collected: 5/18/2011 11:48:53 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0834-02C~SL-MW-62

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1095060.6	105.24	%	0.692				0.66%
Lu 261.542	1191817.6	104.2	%	0.33				0.32%
Ag 328.068†	84.6	0.00078	mg/L	0.000241	0.00078	mg/L	0.000241	30.69%
Al 308.215†	187.6	0.01025	mg/L	0.002279	0.01025	mg/L	0.002279	22.24%
As 188.979†	1.1	0.00101	mg/L	0.001116	0.00101	mg/L	0.001116	111.00%
Ba 233.527†	3632.7	0.05523	mg/L	0.000598	0.05523	mg/L	0.000598	1.08%
Be 313.107†	14.0	0.00001	mg/L	0.000016	0.00001	mg/L	0.000016	136.87%
Co 228.616†	4.8	0.00033	mg/L	0.000255	0.00033	mg/L	0.000255	77.45%
Cr 267.716†	343.2	0.00795	mg/L	0.000088	0.00795	mg/L	0.000088	1.11%
Cu 324.752†	510.5	0.00283	mg/L	0.000060	0.00283	mg/L	0.000060	2.12%
Fe 273.955†	708.4	0.03679	mg/L	0.000687	0.03679	mg/L	0.000687	1.87%
Mg 279.077†	33927.2	2.3978	mg/L	0.02753	2.3978	mg/L	0.02753	1.15%
Mn 257.610†	110409.2	0.29934	mg/L	0.001082	0.29934	mg/L	0.001082	0.36%
Ni 231.604†	231.9	0.01432	mg/L	0.000407	0.01432	mg/L	0.000407	2.84%
Pb 220.353†	-8.4	-0.00159	mg/L	0.000126	-0.00159	mg/L	0.000126	7.95%
Sb 206.836†	6.3	0.00298	mg/L	0.002633	0.00298	mg/L	0.002633	88.31%
Se 196.026†	0.2	-0.00039	mg/L	0.002990	-0.00039	mg/L	0.002990	776.53%
Tl 190.801†	-3.2	-0.00204	mg/L	0.001905	-0.00204	mg/L	0.001905	93.39%
V 292.402†	0.7	0.00005	mg/L	0.000280	0.00005	mg/L	0.000280	559.23%
Zn 206.200†	769.8	0.03575	mg/L	0.000175	0.03575	mg/L	0.000175	0.49%
Cd 226.502†	28.1	0.00071	mg/L	0.000064	0.00071	mg/L	0.000064	9.05%
Ti 334.940†	-10.6	0.00011	mg/L	0.000177	0.00011	mg/L	0.000177	156.47%
Ca 227.546†	2454.9	13.771	mg/L	0.0808	13.771	mg/L	0.0808	0.59%
Na 589.592	123505.2	40.212	mg/L	0.3175	40.212	mg/L	0.3175	0.79%
K 766.490	3860.4	3.0651	mg/L	0.05908	3.0651	mg/L	0.05908	1.93%

Sequence No.: 13 **Autosampler Location: 83**
Sample ID: K0834-03C~SL-MW-13 **Date Collected: 5/18/2011 11:52:33 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0834-03C~SL-MW-13

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1096629.2	105.39	%	2.213				2.10%
Lu 261.542	1189781.6	104.0	%	2.27				2.18%
Ag 328.068†	104.7	0.00097	mg/L	0.000446	0.00097	mg/L	0.000446	46.00%
Al 308.215†	1966.3	0.10744	mg/L	0.012758	0.10744	mg/L	0.012758	11.88%
As 188.979†	3.3	0.00281	mg/L	0.001625	0.00281	mg/L	0.001625	57.92%

Ba 233.527†	2690.3	0.04089	mg/L	0.000845	0.04089	mg/L	0.000845	2.07%
Be 313.107†	258.8	0.00021	mg/L	0.000041	0.00021	mg/L	0.000041	19.34%
Co 228.616†	66.7	0.00452	mg/L	0.000312	0.00452	mg/L	0.000312	6.92%
Cr 267.716†	1696.0	0.03954	mg/L	0.000357	0.03954	mg/L	0.000357	0.90%
Cu 324.752†	2689.5	0.01494	mg/L	0.000196	0.01494	mg/L	0.000196	1.31%
Fe 273.955†	3430.2	0.17811	mg/L	0.002941	0.17811	mg/L	0.002941	1.65%
Mg 279.077†	29636.4	2.0945	mg/L	0.03802	2.0945	mg/L	0.03802	1.82%
Mn 257.610†	88891.7	0.24099	mg/L	0.004775	0.24099	mg/L	0.004775	1.98%
Ni 231.604†	5001.6	0.30893	mg/L	0.005220	0.30893	mg/L	0.005220	1.69%
Pb 220.353†	-0.5	-0.00006	mg/L	0.001489	-0.00006	mg/L	0.001489	>999.9%
Sb 206.836†	0.3	-0.00062	mg/L	0.001489	-0.00062	mg/L	0.001489	240.17%
Se 196.026†	-2.0	-0.00279	mg/L	0.005950	-0.00279	mg/L	0.005950	213.20%
Tl 190.801†	-2.7	-0.00170	mg/L	0.003138	-0.00170	mg/L	0.003138	184.53%
V 292.402†	-18.4	-0.00020	mg/L	0.000191	-0.00020	mg/L	0.000191	96.04%
Zn 206.200†	1673.2	0.07777	mg/L	0.001571	0.07777	mg/L	0.001571	2.02%
Cd 226.502†	3033.1	0.07698	mg/L	0.001522	0.07698	mg/L	0.001522	1.98%
Ti 334.940†	44.4	0.00017	mg/L	0.000056	0.00017	mg/L	0.000056	33.34%
Ca 227.546†	1411.9	7.9203	mg/L	0.22530	7.9203	mg/L	0.22530	2.84%
Na 589.592	111793.5	36.399	mg/L	0.5263	36.399	mg/L	0.5263	1.45%
K 766.490	4386.3	3.4826	mg/L	0.05681	3.4826	mg/L	0.05681	1.63%

Sequence No.: 14 **Autosampler Location: 84**
Sample ID: K0834-05C~SL-MW-14 **Date Collected: 5/18/2011 11:56:13 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0834-05C~SL-MW-14

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1057836.8	101.67	%	0.347				0.34%
Lu 261.542	1158022.7	101.2	%	0.59				0.59%
Ag 328.068†	77.9	0.00072	mg/L	0.000253	0.00072	mg/L	0.000253	35.01%
Al 308.215†	-4.1	-0.00022	mg/L	0.002130	-0.00022	mg/L	0.002130	956.42%
As 188.979†	2.0	0.00162	mg/L	0.002236	0.00162	mg/L	0.002236	138.31%
Ba 233.527†	1595.6	0.02426	mg/L	0.000197	0.02426	mg/L	0.000197	0.81%
Be 313.107†	-8.5	-0.00001	mg/L	0.000020	-0.00001	mg/L	0.000020	286.49%
Co 228.616†	28.5	0.00196	mg/L	0.000044	0.00196	mg/L	0.000044	2.24%
Cr 267.716†	28.2	0.00064	mg/L	0.000101	0.00064	mg/L	0.000101	15.72%
Cu 324.752†	326.0	0.00181	mg/L	0.000308	0.00181	mg/L	0.000308	17.08%
Fe 273.955†	265.3	0.01376	mg/L	0.000933	0.01376	mg/L	0.000933	6.78%
Mg 279.077†	31884.6	2.2522	mg/L	0.00820	2.2522	mg/L	0.00820	0.36%
Mn 257.610†	5154.7	0.01391	mg/L	0.000107	0.01391	mg/L	0.000107	0.77%
Ni 231.604†	70.7	0.00436	mg/L	0.000349	0.00436	mg/L	0.000349	7.99%
Pb 220.353†	-5.2	-0.00097	mg/L	0.000372	-0.00097	mg/L	0.000372	38.50%
Sb 206.836†	-5.7	-0.00289	mg/L	0.002137	-0.00289	mg/L	0.002137	73.95%
Se 196.026†	-6.2	-0.00796	mg/L	0.001613	-0.00796	mg/L	0.001613	20.27%
Tl 190.801†	-1.4	-0.00088	mg/L	0.001832	-0.00088	mg/L	0.001832	209.06%
V 292.402†	-12.3	-0.00019	mg/L	0.000152	-0.00019	mg/L	0.000152	79.71%
Zn 206.200†	468.7	0.02176	mg/L	0.000206	0.02176	mg/L	0.000206	0.95%
Cd 226.502†	39.8	0.00101	mg/L	0.000077	0.00101	mg/L	0.000077	7.59%
Ti 334.940†	9.8	0.00011	mg/L	0.000160	0.00011	mg/L	0.000160	151.67%
Ca 227.546†	1638.7	9.1922	mg/L	0.07127	9.1922	mg/L	0.07127	0.78%
Na 589.592	259071.4	84.352	mg/L	1.0262	84.352	mg/L	1.0262	1.22%
K 766.490	1913.3	1.5191	mg/L	0.11421	1.5191	mg/L	0.11421	7.52%

Sequence No.: 15 **Autosampler Location: 85**
Sample ID: K0834-06C~SL-MW-23S **Date Collected: 5/18/2011 12:00:00 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0834-06C~SL-MW-23S

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1087616.6	104.53	%	0.916				0.88%
Lu 261.542	1187507.7	103.8	%	0.89				0.85%

Ag 328.068†	96.1	0.00089	mg/L	0.000096	0.00089	mg/L	0.000096 10.83%
Al 308.215†	-16.0	-0.00087	mg/L	0.007411	-0.00087	mg/L	0.007411 851.62%
As 188.979†	0.4	0.00055	mg/L	0.002706	0.00055	mg/L	0.002706 493.58%
Ba 233.527†	665.7	0.01012	mg/L	0.000080	0.01012	mg/L	0.000080 0.79%
Be 313.107†	25.2	0.00002	mg/L	0.000021	0.00002	mg/L	0.000021 101.91%
Co 228.616†	4.9	0.00033	mg/L	0.000298	0.00033	mg/L	0.000298 88.95%
Cr 267.716†	15.2	0.00011	mg/L	0.000176	0.00011	mg/L	0.000176 159.59%
Cu 324.752†	402.1	0.00222	mg/L	0.000324	0.00222	mg/L	0.000324 14.63%
Fe 273.955†	183.7	0.00952	mg/L	0.000580	0.00952	mg/L	0.000580 6.09%
Mg 279.077†	82254.2	5.8154	mg/L	0.08665	5.8154	mg/L	0.08665 1.49%
Mn 257.610†	418155.3	1.1338	mg/L	0.00335	1.1338	mg/L	0.00335 0.30%
Ni 231.604†	126.4	0.00779	mg/L	0.000417	0.00779	mg/L	0.000417 5.34%
Pb 220.353†	-5.5	-0.00112	mg/L	0.002104	-0.00112	mg/L	0.002104 187.15%
Sb 206.836†	-1.2	-0.00067	mg/L	0.003361	-0.00067	mg/L	0.003361 505.24%
Se 196.026†	-4.9	-0.00718	mg/L	0.003554	-0.00718	mg/L	0.003554 49.50%
Tl 190.801†	-6.4	-0.00411	mg/L	0.000396	-0.00411	mg/L	0.000396 9.64%
V 292.402†	-17.7	-0.00019	mg/L	0.000156	-0.00019	mg/L	0.000156 84.36%
Zn 206.200†	742.0	0.03444	mg/L	0.000421	0.03444	mg/L	0.000421 1.22%
Cd 226.502†	26.1	0.00066	mg/L	0.000093	0.00066	mg/L	0.000093 14.04%
Ti 334.940†	-49.3	-0.00002	mg/L	0.000168	-0.00002	mg/L	0.000168 931.52%
Ca 227.546†	2621.5	14.704	mg/L	0.1094	14.704	mg/L	0.1094 0.74%
Na 589.592	92466.4	30.106	mg/L	0.1328	30.106	mg/L	0.1328 0.44%
K 766.490	1633.5	1.2969	mg/L	0.03872	1.2969	mg/L	0.03872 2.99%

Sequence No.: 16 **Autosampler Location: 86**
Sample ID: K0834-07C~SL-MW-23D **Date Collected: 5/18/2011 12:03:40 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0834-07C~SL-MW-23D

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1085979.9	104.37	%	0.534				0.51%
Lu 261.542	1174097.4	102.6	%	0.41				0.40%
Ag 328.068†	54.3	0.00050	mg/L	0.000345	0.00050	mg/L	0.000345	68.74%
Al 308.215†	-97.7	-0.00534	mg/L	0.002408	-0.00534	mg/L	0.002408	45.10%
As 188.979†	-1.6	-0.00092	mg/L	0.002452	-0.00092	mg/L	0.002452	265.49%
Ba 233.527†	1377.1	0.02094	mg/L	0.000143	0.02094	mg/L	0.000143	0.68%
Be 313.107†	-9.4	-0.00001	mg/L	0.000012	-0.00001	mg/L	0.000012	151.03%
Co 228.616†	3.0	0.00021	mg/L	0.000238	0.00021	mg/L	0.000238	116.09%
Cr 267.716†	14.3	0.00014	mg/L	0.000011	0.00014	mg/L	0.000011	7.91%
Cu 324.752†	539.7	0.00299	mg/L	0.000158	0.00299	mg/L	0.000158	5.28%
Fe 273.955†	125.6	0.00652	mg/L	0.000484	0.00652	mg/L	0.000484	7.42%
Mg 279.077†	56618.0	4.0035	mg/L	0.05391	4.0035	mg/L	0.05391	1.35%
Mn 257.610†	332782.0	0.90235	mg/L	0.002841	0.90235	mg/L	0.002841	0.31%
Ni 231.604†	8.5	0.00052	mg/L	0.000502	0.00052	mg/L	0.000502	97.37%
Pb 220.353†	-7.3	-0.00143	mg/L	0.000115	-0.00143	mg/L	0.000115	8.06%
Sb 206.836†	-3.9	-0.00199	mg/L	0.002856	-0.00199	mg/L	0.002856	143.61%
Se 196.026†	1.6	0.00093	mg/L	0.004324	0.00093	mg/L	0.004324	463.24%
Tl 190.801†	-3.2	-0.00201	mg/L	0.002294	-0.00201	mg/L	0.002294	113.92%
V 292.402†	1.5	0.00010	mg/L	0.000244	0.00010	mg/L	0.000244	252.19%
Zn 206.200†	529.4	0.02457	mg/L	0.000244	0.02457	mg/L	0.000244	0.99%
Cd 226.502†	3.3	0.00008	mg/L	0.000081	0.00008	mg/L	0.000081	96.79%
Ti 334.940†	-95.1	-0.00005	mg/L	0.000084	-0.00005	mg/L	0.000084	164.60%
Ca 227.546†	3277.5	18.384	mg/L	0.0777	18.384	mg/L	0.0777	0.42%
Na 589.592	49439.8	16.097	mg/L	0.2381	16.097	mg/L	0.2381	1.48%
K 766.490	3527.9	2.8011	mg/L	0.10085	2.8011	mg/L	0.10085	3.60%

Sequence No.: 17 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 5/18/2011 12:07:21 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCV

	Mean Corrected	Calib.			Sample			

Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y 360.073	1061202.8	101.99	%	0.250				0.25%
Lu 261.542	1153000.9	100.8	%	0.28				0.28%
Ag 328.068†	135378.1	1.2560	mg/L	0.00671	1.2560	mg/L	0.00671	0.53%
QC value within limits for Ag 328.068 Recovery = 100.48%								
Al 308.215†	183908.3	10.017	mg/L	0.0613	10.017	mg/L	0.0613	0.61%
QC value within limits for Al 308.215 Recovery = 100.17%								
As 188.979†	624.7	0.47879	mg/L	0.002139	0.47879	mg/L	0.002139	0.45%
QC value within limits for As 188.979 Recovery = 95.76%								
Ba 233.527†	657586.6	10.001	mg/L	0.0333	10.001	mg/L	0.0333	0.33%
QC value within limits for Ba 233.527 Recovery = 100.01%								
Be 313.107†	289955.4	0.23756	mg/L	0.001794	0.23756	mg/L	0.001794	0.76%
QC value within limits for Be 313.107 Recovery = 95.03%								
Co 228.616†	35465.0	2.4379	mg/L	0.00719	2.4379	mg/L	0.00719	0.29%
QC value within limits for Co 228.616 Recovery = 97.52%								
Cr 267.716†	45061.9	1.0523	mg/L	0.00325	1.0523	mg/L	0.00325	0.31%
QC value within limits for Cr 267.716 Recovery = 105.23%								
Cu 324.752†	217955.0	1.2114	mg/L	0.00662	1.2114	mg/L	0.00662	0.55%
QC value within limits for Cu 324.752 Recovery = 96.91%								
Fe 273.955†	97193.0	5.1241	mg/L	0.02006	5.1241	mg/L	0.02006	0.39%
QC value within limits for Fe 273.955 Recovery = 102.48%								
Mg 279.077†	348029.5	24.594	mg/L	0.0906	24.594	mg/L	0.0906	0.37%
QC value within limits for Mg 279.077 Recovery = 98.38%								
Mn 257.610†	887944.2	2.4071	mg/L	0.01038	2.4071	mg/L	0.01038	0.43%
QC value within limits for Mn 257.610 Recovery = 96.28%								
Ni 231.604†	43072.1	2.6600	mg/L	0.00933	2.6600	mg/L	0.00933	0.35%
QC value within limits for Ni 231.604 Recovery = 106.40%								
Pb 220.353†	2634.5	0.49865	mg/L	0.003351	0.49865	mg/L	0.003351	0.67%
QC value within limits for Pb 220.353 Recovery = 99.73%								
Sb 206.836†	988.1	0.47833	mg/L	0.005860	0.47833	mg/L	0.005860	1.23%
QC value within limits for Sb 206.836 Recovery = 95.67%								
Se 196.026†	398.1	0.49324	mg/L	0.003072	0.49324	mg/L	0.003072	0.62%
QC value within limits for Se 196.026 Recovery = 98.65%								
Tl 190.801†	758.8	0.50684	mg/L	0.003843	0.50684	mg/L	0.003843	0.76%
QC value within limits for Tl 190.801 Recovery = 101.37%								
V 292.402†	163207.8	2.5651	mg/L	0.01125	2.5651	mg/L	0.01125	0.44%
QC value within limits for V 292.402 Recovery = 102.60%								
Zn 206.200†	52432.6	2.4364	mg/L	0.00224	2.4364	mg/L	0.00224	0.09%
QC value within limits for Zn 206.200 Recovery = 97.46%								
Cd 226.502†	9537.7	0.24164	mg/L	0.000382	0.24164	mg/L	0.000382	0.16%
QC value within limits for Cd 226.502 Recovery = 96.66%								
Ti 334.940†	202810.3	0.47697	mg/L	0.001691	0.47697	mg/L	0.001691	0.35%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Ca 227.546†	4538.7	25.566	mg/L	0.1168	25.566	mg/L	0.1168	0.46%
QC value within limits for Ca 227.546 Recovery = 102.27%								
Na 589.592	79447.3	25.868	mg/L	0.2417	25.868	mg/L	0.2417	0.93%
QC value within limits for Na 589.592 Recovery = 103.47%								
K 766.490	32545.1	25.840	mg/L	0.2770	25.840	mg/L	0.2770	1.07%
QC value within limits for K 766.490 Recovery = 103.36%								

All analyte(s) passed QC.

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Sequence No.: 18 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 5/18/2011 12:11:02 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1075598.3	103.37	%	0.371				0.36%
Lu 261.542	1152334.1	100.7	%	0.52				0.52%
Ag 328.068†	119.5	0.00111	mg/L	0.000269	0.00111	mg/L	0.000269	24.25%
Al 308.215†	203.6	0.01112	mg/L	0.005477	0.01112	mg/L	0.005477	49.26%
As 188.979†	2.7	0.00201	mg/L	0.001600	0.00201	mg/L	0.001600	79.65%
Ba 233.527†	92.3	0.00140	mg/L	0.000530	0.00140	mg/L	0.000530	37.76%
Be 313.107†	21.6	0.00002	mg/L	0.000022	0.00002	mg/L	0.000022	119.58%
Co 228.616†	11.2	0.00077	mg/L	0.000324	0.00077	mg/L	0.000324	42.24%
Cr 267.716†	3.5	0.00008	mg/L	0.000162	0.00008	mg/L	0.000162	197.95%

Cu 324.752†	197.6	0.00110	mg/L	0.000276	0.00110	mg/L	0.000276 25.13%
Fe 273.955†	58.6	0.00305	mg/L	0.000901	0.00305	mg/L	0.000901 29.58%
Mg 279.077†	154.6	0.01092	mg/L	0.005801	0.01092	mg/L	0.005801 53.10%
Mn 257.610†	135.8	0.00037	mg/L	0.000128	0.00037	mg/L	0.000128 34.68%
Ni 231.604†	6.6	0.00041	mg/L	0.000336	0.00041	mg/L	0.000336 82.00%
Pb 220.353†	-6.2	-0.00117	mg/L	0.000709	-0.00117	mg/L	0.000709 60.81%
Sb 206.836†	6.2	0.00311	mg/L	0.002587	0.00311	mg/L	0.002587 83.25%
Se 196.026†	-3.2	-0.00398	mg/L	0.001683	-0.00398	mg/L	0.001683 42.32%
Tl 190.801†	-1.6	-0.00107	mg/L	0.002184	-0.00107	mg/L	0.002184 204.85%
V 292.402†	19.9	0.00031	mg/L	0.000249	0.00031	mg/L	0.000249 79.81%
Zn 206.200†	18.8	0.00087	mg/L	0.000179	0.00087	mg/L	0.000179 20.46%
Cd 226.502†	3.2	0.00008	mg/L	0.000068	0.00008	mg/L	0.000068 84.91%
Ti 334.940†	79.5	0.00019	mg/L	0.000162	0.00019	mg/L	0.000162 86.27%
Ca 227.546†	8.0	0.04523	mg/L	0.033200	0.04523	mg/L	0.033200 73.41%
Na 589.592	142.1	0.04628	mg/L	0.017468	0.04628	mg/L	0.017468 37.74%
K 766.490	61.4	0.04879	mg/L	0.052590	0.04879	mg/L	0.052590 107.79%

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Sequence No.: 19 **Autosampler Location: 87**
Sample ID: K0834-08C~SL-MW-16 **Date Collected: 5/18/2011 12:14:41 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0834-08C~SL-MW-16

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1070832.1	102.91	%	0.935				0.91%
Lu 261.542	1166984.8	102.0	%	0.68				0.66%
Ag 328.068†	107.2	0.00099	mg/L	0.000380	0.00099	mg/L	0.000380	38.20%
Al 308.215†	760.5	0.04155	mg/L	0.007044	0.04155	mg/L	0.007044	16.95%
As 188.979†	2.3	0.00219	mg/L	0.000803	0.00219	mg/L	0.000803	36.66%
Ba 233.527†	762.6	0.01159	mg/L	0.000082	0.01159	mg/L	0.000082	0.71%
Be 313.107†	27.9	0.00002	mg/L	0.000022	0.00002	mg/L	0.000022	94.75%
Co 228.616†	21.4	0.00141	mg/L	0.000078	0.00141	mg/L	0.000078	5.53%
Cr 267.716†	1650.8	0.03851	mg/L	0.000903	0.03851	mg/L	0.000903	2.35%
Cu 324.752†	257.1	0.00147	mg/L	0.000291	0.00147	mg/L	0.000291	19.75%
Fe 273.955†	26091.4	1.3537	mg/L	0.01855	1.3537	mg/L	0.01855	1.37%
Mg 279.077†	108973.3	7.6972	mg/L	0.10730	7.6972	mg/L	0.10730	1.39%
Mn 257.610†	12336.4	0.03321	mg/L	0.000572	0.03321	mg/L	0.000572	1.72%
Ni 231.604†	1038.7	0.06412	mg/L	0.000445	0.06412	mg/L	0.000445	0.69%
Pb 220.353†	-7.6	-0.00139	mg/L	0.001187	-0.00139	mg/L	0.001187	85.13%
Sb 206.836†	8.0	0.00314	mg/L	0.001559	0.00314	mg/L	0.001559	49.67%
Se 196.026†	-3.5	-0.00435	mg/L	0.001700	-0.00435	mg/L	0.001700	39.11%
Tl 190.801†	-1.9	-0.00109	mg/L	0.000649	-0.00109	mg/L	0.000649	59.65%
V 292.402†	20.8	0.00048	mg/L	0.000356	0.00048	mg/L	0.000356	74.42%
Zn 206.200†	387.2	0.01808	mg/L	0.000403	0.01808	mg/L	0.000403	2.23%
Cd 226.502†	9.3	0.00013	mg/L	0.000038	0.00013	mg/L	0.000038	29.73%
Ti 334.940†	165.0	0.00047	mg/L	0.000069	0.00047	mg/L	0.000069	14.74%
Ca 227.546†	2859.5	16.109	mg/L	0.1577	16.109	mg/L	0.1577	0.98%
Na 589.592	261535.6	85.154	mg/L	0.7669	85.154	mg/L	0.7669	0.90%
K 766.490	2184.5	1.7344	mg/L	0.04012	1.7344	mg/L	0.04012	2.31%

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Sequence No.: 20 **Autosampler Location: 88**
Sample ID: K0834-09C~SL-MW-2 **Date Collected: 5/18/2011 12:18:27 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0834-09C~SL-MW-2

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1089039.5	104.66	%	0.336				0.32%
Lu 261.542	1186576.4	103.7	%	0.08				0.08%
Ag 328.068†	116.8	0.00108	mg/L	0.000296	0.00108	mg/L	0.000296	27.37%
Al 308.215†	-113.0	-0.00617	mg/L	0.003013	-0.00617	mg/L	0.003013	48.80%
As 188.979†	0.7	0.00072	mg/L	0.002353	0.00072	mg/L	0.002353	325.34%
Ba 233.527†	1633.6	0.02484	mg/L	0.000059	0.02484	mg/L	0.000059	0.24%

Be 313.107†	7.1	0.00001	mg/L	0.000012	0.00001	mg/L	0.000012 231.24%
Co 228.616†	14.3	0.00098	mg/L	0.000403	0.00098	mg/L	0.000403 41.24%
Cr 267.716†	315.2	0.00733	mg/L	0.000184	0.00733	mg/L	0.000184 2.52%
Cu 324.752†	591.1	0.00328	mg/L	0.000224	0.00328	mg/L	0.000224 6.84%
Fe 273.955†	379.8	0.01974	mg/L	0.000111	0.01974	mg/L	0.000111 0.56%
Mg 279.077†	36913.1	2.6077	mg/L	0.01634	2.6077	mg/L	0.01634 0.63%
Mn 257.610†	32619.1	0.08838	mg/L	0.000741	0.08838	mg/L	0.000741 0.84%
Ni 231.604†	332.8	0.02055	mg/L	0.000176	0.02055	mg/L	0.000176 0.86%
Pb 220.353†	-2.8	-0.00049	mg/L	0.000298	-0.00049	mg/L	0.000298 60.45%
Sb 206.836†	-0.2	-0.00029	mg/L	0.003009	-0.00029	mg/L	0.003009 >999.9%
Se 196.026†	1.5	0.00123	mg/L	0.004522	0.00123	mg/L	0.004522 367.43%
Tl 190.801†	-2.3	-0.00147	mg/L	0.001775	-0.00147	mg/L	0.001775 120.94%
V 292.402†	3.5	0.00007	mg/L	0.000162	0.00007	mg/L	0.000162 218.41%
Zn 206.200†	735.0	0.03413	mg/L	0.000315	0.03413	mg/L	0.000315 0.92%
Cd 226.502†	347.0	0.00881	mg/L	0.000146	0.00881	mg/L	0.000146 1.66%
Ti 334.940†	-90.5	-0.00003	mg/L	0.000088	-0.00003	mg/L	0.000088 299.82%
Ca 227.546†	3141.6	17.622	mg/L	0.1023	17.622	mg/L	0.1023 0.58%
Na 589.592	85381.4	27.800	mg/L	0.1209	27.800	mg/L	0.1209 0.43%
K 766.490	2857.6	2.2688	mg/L	0.03592	2.2688	mg/L	0.03592 1.58%

Sequence No.: 21 **Autosampler Location: 89**
Sample ID: K0834-10C~SL-MW-3A **Date Collected: 5/18/2011 12:22:07 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0834-10C~SL-MW-3A

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1086118.0	104.38	%	1.868				1.79%
Lu 261.542	1187613.9	103.8	%	1.79				1.72%
Ag 328.068†	115.6	0.00107	mg/L	0.000331	0.00107	mg/L	0.000331	30.88%
Al 308.215†	778.3	0.04251	mg/L	0.005869	0.04251	mg/L	0.005869	13.80%
As 188.979†	2.5	0.00211	mg/L	0.000494	0.00211	mg/L	0.000494	23.40%
Ba 233.527†	918.0	0.01396	mg/L	0.000268	0.01396	mg/L	0.000268	1.92%
Be 313.107†	-19.4	-0.00001	mg/L	0.000014	-0.00001	mg/L	0.000014	103.01%
Co 228.616†	4.1	0.00028	mg/L	0.000337	0.00028	mg/L	0.000337	119.88%
Cr 267.716†	108.2	0.00252	mg/L	0.000108	0.00252	mg/L	0.000108	4.29%
Cu 324.752†	2256.4	0.01253	mg/L	0.000367	0.01253	mg/L	0.000367	2.93%
Fe 273.955†	778.6	0.04044	mg/L	0.001298	0.04044	mg/L	0.001298	3.21%
Mg 279.077†	11318.8	0.79967	mg/L	0.007493	0.79967	mg/L	0.007493	0.94%
Mn 257.610†	14392.6	0.03901	mg/L	0.000371	0.03901	mg/L	0.000371	0.95%
Ni 231.604†	79.8	0.00492	mg/L	0.000386	0.00492	mg/L	0.000386	7.83%
Pb 220.353†	-3.0	-0.00053	mg/L	0.000803	-0.00053	mg/L	0.000803	150.94%
Sb 206.836†	3.1	0.00146	mg/L	0.000746	0.00146	mg/L	0.000746	51.00%
Se 196.026†	-2.7	-0.00394	mg/L	0.002049	-0.00394	mg/L	0.002049	52.05%
Tl 190.801†	0.4	0.00034	mg/L	0.001709	0.00034	mg/L	0.001709	507.90%
V 292.402†	68.1	0.00108	mg/L	0.000317	0.00108	mg/L	0.000317	29.46%
Zn 206.200†	2246.0	0.10425	mg/L	0.001697	0.10425	mg/L	0.001697	1.63%
Cd 226.502†	27.1	0.00069	mg/L	0.000052	0.00069	mg/L	0.000052	7.59%
Ti 334.940†	431.0	0.00124	mg/L	0.000021	0.00124	mg/L	0.000021	1.66%
Ca 227.546†	3385.8	18.993	mg/L	0.2481	18.993	mg/L	0.2481	1.31%
Na 589.592	167101.0	54.407	mg/L	0.2971	54.407	mg/L	0.2971	0.55%
K 766.490	3624.9	2.8781	mg/L	0.08572	2.8781	mg/L	0.08572	2.98%

Sequence No.: 22 **Autosampler Location: 90**
Sample ID: K0834-11C~SL-MW-3B **Date Collected: 5/18/2011 12:25:47 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0834-11C~SL-MW-3B

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1111432.7	106.82	%	1.058				0.99%
Lu 261.542	1208655.3	105.6	%	1.21				1.15%
Ag 328.068†	112.2	0.00104	mg/L	0.000341	0.00104	mg/L	0.000341	32.79%

Al 308.215†	570.8	0.03118	mg/L	0.008177	0.03118	mg/L	0.008177 26.22%
As 188.979†	2.0	0.00170	mg/L	0.001741	0.00170	mg/L	0.001741 102.30%
Ba 233.527†	457.5	0.00695	mg/L	0.000068	0.00695	mg/L	0.000068 0.98%
Be 313.107†	-15.0	-0.00001	mg/L	0.000018	-0.00001	mg/L	0.000018 181.56%
Co 228.616†	9.0	0.00060	mg/L	0.000154	0.00060	mg/L	0.000154 25.53%
Cr 267.716†	747.5	0.01745	mg/L	0.000239	0.01745	mg/L	0.000239 1.37%
Cu 324.752†	1994.9	0.01108	mg/L	0.000335	0.01108	mg/L	0.000335 3.02%
Fe 273.955†	1565.8	0.08132	mg/L	0.003161	0.08132	mg/L	0.003161 3.89%
Mg 279.077†	8802.1	0.62177	mg/L	0.011244	0.62177	mg/L	0.011244 1.81%
Mn 257.610†	3484.1	0.00943	mg/L	0.000188	0.00943	mg/L	0.000188 1.99%
Ni 231.604†	901.2	0.05566	mg/L	0.000762	0.05566	mg/L	0.000762 1.37%
Pb 220.353†	-1.0	-0.00016	mg/L	0.000497	-0.00016	mg/L	0.000497 308.96%
Sb 206.836†	3.8	0.00155	mg/L	0.001227	0.00155	mg/L	0.001227 79.37%
Se 196.026†	2.4	0.00264	mg/L	0.001818	0.00264	mg/L	0.001818 68.77%
Tl 190.801†	-4.0	-0.00259	mg/L	0.000467	-0.00259	mg/L	0.000467 18.01%
V 292.402†	25.3	0.00043	mg/L	0.000161	0.00043	mg/L	0.000161 37.52%
Zn 206.200†	1456.9	0.06766	mg/L	0.001115	0.06766	mg/L	0.001115 1.65%
Cd 226.502†	11.5	0.00029	mg/L	0.000042	0.00029	mg/L	0.000042 14.76%
Ti 334.940†	440.9	0.00116	mg/L	0.000055	0.00116	mg/L	0.000055 4.79%
Ca 227.546†	1796.9	10.082	mg/L	0.2013	10.082	mg/L	0.2013 2.00%
Na 589.592	23225.6	7.5621	mg/L	0.03115	7.5621	mg/L	0.03115 0.41%
K 766.490	1824.2	1.4484	mg/L	0.06264	1.4484	mg/L	0.06264 4.32%

Sequence No.: 23 **Autosampler Location: 91**
Sample ID: K0834-12C~SL-MW-4 **Date Collected: 5/18/2011 12:29:27 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0834-12C~SL-MW-4

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1027283.3	98.730	%	1.5235				1.54%
Lu 261.542	1132963.9	99.03	%	1.560				1.58%
Ag 328.068†	43.0	0.00040	mg/L	0.000321	0.00040	mg/L	0.000321	80.70%
Al 308.215†	107.1	0.00585	mg/L	0.001084	0.00585	mg/L	0.001084	18.53%
As 188.979†	1.6	0.00160	mg/L	0.001345	0.00160	mg/L	0.001345	84.21%
Ba 233.527†	1727.9	0.02627	mg/L	0.000242	0.02627	mg/L	0.000242	0.92%
Be 313.107†	-2.4	0.00000	mg/L	0.000018	0.00000	mg/L	0.000018	832.29%
Co 228.616†	4.8	0.00033	mg/L	0.000241	0.00033	mg/L	0.000241	73.42%
Cr 267.716†	1428.1	0.03325	mg/L	0.001031	0.03325	mg/L	0.001031	3.10%
Cu 324.752†	1386.1	0.00769	mg/L	0.000123	0.00769	mg/L	0.000123	1.60%
Fe 273.955†	239.7	0.01258	mg/L	0.000761	0.01258	mg/L	0.000761	6.05%
Mg 279.077†	46778.1	3.3061	mg/L	0.03803	3.3061	mg/L	0.03803	1.15%
Mn 257.610†	153746.7	0.41684	mg/L	0.009342	0.41684	mg/L	0.009342	2.24%
Ni 231.604†	158.6	0.00979	mg/L	0.000064	0.00979	mg/L	0.000064	0.65%
Pb 220.353†	-3.8	-0.00073	mg/L	0.001087	-0.00073	mg/L	0.001087	149.35%
Sb 206.836†	3.3	0.00102	mg/L	0.001120	0.00102	mg/L	0.001120	109.58%
Se 196.026†	-6.4	-0.00878	mg/L	0.002938	-0.00878	mg/L	0.002938	33.46%
Tl 190.801†	-3.5	-0.00224	mg/L	0.001152	-0.00224	mg/L	0.001152	51.39%
V 292.402†	0.3	0.00009	mg/L	0.000348	0.00009	mg/L	0.000348	386.63%
Zn 206.200†	630.0	0.02933	mg/L	0.000354	0.02933	mg/L	0.000354	1.21%
Cd 226.502†	9.8	0.00025	mg/L	0.000042	0.00025	mg/L	0.000042	16.92%
Ti 334.940†	-49.0	0.00008	mg/L	0.000157	0.00008	mg/L	0.000157	207.95%
Ca 227.546†	3426.6	19.220	mg/L	0.2850	19.220	mg/L	0.2850	1.48%
Na 589.592	393099.8	127.99	mg/L	0.148	127.99	mg/L	0.148	0.12%
K 766.490	3728.6	2.9605	mg/L	0.07539	2.9605	mg/L	0.07539	2.55%

Sequence No.: 24 **Autosampler Location: 92**
Sample ID: K0834-12CDUP~SL-MW-4D **Date Collected: 5/18/2011 12:33:14 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0834-12CDUP~SL-MW-4D

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD

Y 360.073	1062837.8	102.15	%	0.894			0.88%
Lu 261.542	1172418.6	102.5	%	0.45			0.44%
Ag 328.068†	99.4	0.00092	mg/L	0.000448	0.00092 mg/L	0.000448	48.71%
Al 308.215†	-147.9	-0.00808	mg/L	0.003029	-0.00808 mg/L	0.003029	37.49%
As 188.979†	1.4	0.00143	mg/L	0.000540	0.00143 mg/L	0.000540	37.74%
Ba 233.527†	1687.1	0.02565	mg/L	0.000078	0.02565 mg/L	0.000078	0.30%
Be 313.107†	-15.4	-0.00001	mg/L	0.000014	-0.00001 mg/L	0.000014	106.95%
Co 228.616†	3.7	0.00025	mg/L	0.000256	0.00025 mg/L	0.000256	101.94%
Cr 267.716†	1367.2	0.03183	mg/L	0.000183	0.03183 mg/L	0.000183	0.57%
Cu 324.752†	1208.2	0.00671	mg/L	0.000115	0.00671 mg/L	0.000115	1.72%
Fe 273.955†	540.5	0.02817	mg/L	0.000397	0.02817 mg/L	0.000397	1.41%
Mg 279.077†	45547.7	3.2191	mg/L	0.04893	3.2191 mg/L	0.04893	1.52%
Mn 257.610†	150642.8	0.40843	mg/L	0.001009	0.40843 mg/L	0.001009	0.25%
Ni 231.604†	157.7	0.00973	mg/L	0.000297	0.00973 mg/L	0.000297	3.05%
Pb 220.353†	1.3	0.00024	mg/L	0.001196	0.00024 mg/L	0.001196	495.84%
Sb 206.836†	1.0	-0.00012	mg/L	0.003282	-0.00012 mg/L	0.003282	>999.9%
Se 196.026†	-1.8	-0.00300	mg/L	0.008080	-0.00300 mg/L	0.008080	269.36%
Tl 190.801†	0.9	0.00067	mg/L	0.001370	0.00067 mg/L	0.001370	203.17%
V 292.402†	-8.3	-0.00005	mg/L	0.000405	-0.00005 mg/L	0.000405	879.24%
Zn 206.200†	575.8	0.02681	mg/L	0.000221	0.02681 mg/L	0.000221	0.82%
Cd 226.502†	11.0	0.00028	mg/L	0.000074	0.00028 mg/L	0.000074	26.92%
Ti 334.940†	-46.5	0.00007	mg/L	0.000080	0.00007 mg/L	0.000080	108.58%
Ca 227.546†	3300.6	18.515	mg/L	0.1204	18.515 mg/L	0.1204	0.65%
Na 589.592	396784.3	129.19	mg/L	0.566	129.19 mg/L	0.566	0.44%
K 766.490	3787.7	3.0073	mg/L	0.02745	3.0073 mg/L	0.02745	0.91%

Sequence No.: 25 **Autosampler Location: 93**
Sample ID: K0834-12CMS~SL-MW-4S **Date Collected: 5/18/2011 12:37:02 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0834-12CMS~SL-MW-4S

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1050521.8	100.96	%	0.893				0.88%
Lu 261.542	1159441.4	101.3	%	0.86				0.85%
Ag 328.068†	122255.8	1.1342	mg/L	0.00974	1.1342	mg/L	0.00974	0.86%
Al 308.215†	168104.0	9.1576	mg/L	0.08371	9.1576	mg/L	0.08371	0.91%
As 188.979†	608.3	0.46559	mg/L	0.001786	0.46559	mg/L	0.001786	0.38%
Ba 233.527†	600321.0	9.1301	mg/L	0.02843	9.1301	mg/L	0.02843	0.31%
Be 313.107†	272862.8	0.22268	mg/L	0.000784	0.22268	mg/L	0.000784	0.35%
Co 228.616†	32131.1	2.2093	mg/L	0.03193	2.2093	mg/L	0.03193	1.45%
Cr 267.716†	40485.9	0.94537	mg/L	0.010515	0.94537	mg/L	0.010515	1.11%
Cu 324.752†	200166.4	1.1125	mg/L	0.01148	1.1125	mg/L	0.01148	1.03%
Fe 273.955†	87676.0	4.6207	mg/L	0.04006	4.6207	mg/L	0.04006	0.87%
Mg 279.077†	356157.0	25.169	mg/L	0.2344	25.169	mg/L	0.2344	0.93%
Mn 257.610†	966429.6	2.6200	mg/L	0.01195	2.6200	mg/L	0.01195	0.46%
Ni 231.604†	38143.6	2.3558	mg/L	0.02658	2.3558	mg/L	0.02658	1.13%
Pb 220.353†	2413.0	0.45647	mg/L	0.001766	0.45647	mg/L	0.001766	0.39%
Sb 206.836†	908.9	0.44061	mg/L	0.004830	0.44061	mg/L	0.004830	1.10%
Se 196.026†	365.8	0.45255	mg/L	0.001667	0.45255	mg/L	0.001667	0.37%
Tl 190.801†	688.7	0.45687	mg/L	0.006147	0.45687	mg/L	0.006147	1.35%
V 292.402†	143769.2	2.2600	mg/L	0.02077	2.2600	mg/L	0.02077	0.92%
Zn 206.200†	48203.0	2.2398	mg/L	0.02389	2.2398	mg/L	0.02389	1.07%
Cd 226.502†	8901.4	0.22558	mg/L	0.001634	0.22558	mg/L	0.001634	0.72%
Ti 334.940†	9.3	-0.00009	mg/L	0.000059	-0.00009	mg/L	0.000059	66.68%
Ca 227.546†	7351.9	41.340	mg/L	0.3411	41.340	mg/L	0.3411	0.83%
Na 589.592	470811.6	153.29	mg/L	1.731	153.29	mg/L	1.731	1.13%
K 766.490	33313.6	26.450	mg/L	0.4327	26.450	mg/L	0.4327	1.64%

Sequence No.: 26 **Autosampler Location: 94**
Sample ID: K0834-12CSD~SL-MW-4 **Date Collected: 5/18/2011 12:40:50 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0834-12CSD~SL-MW-4

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1092003.3	104.95	%	0.671				0.64%
Lu 261.542	1194952.6	104.4	%	0.60				0.58%
Ag 328.068†	83.0	0.00077	mg/L	0.000196	0.00077	mg/L	0.000196	25.50%
Al 308.215†	-166.0	-0.00907	mg/L	0.001695	-0.00907	mg/L	0.001695	18.69%
As 188.979†	-1.1	-0.00075	mg/L	0.002235	-0.00075	mg/L	0.002235	298.14%
Ba 233.527†	402.9	0.00613	mg/L	0.000272	0.00613	mg/L	0.000272	4.45%
Be 313.107†	13.7	0.00001	mg/L	0.000035	0.00001	mg/L	0.000035	320.11%
Co 228.616†	7.8	0.00053	mg/L	0.000101	0.00053	mg/L	0.000101	18.82%
Cr 267.716†	281.1	0.00654	mg/L	0.000172	0.00654	mg/L	0.000172	2.63%
Cu 324.752†	376.3	0.00209	mg/L	0.000257	0.00209	mg/L	0.000257	12.29%
Fe 273.955†	89.5	0.00467	mg/L	0.000573	0.00467	mg/L	0.000573	12.26%
Mg 279.077†	9684.2	0.68443	mg/L	0.002939	0.68443	mg/L	0.002939	0.43%
Mn 257.610†	31353.0	0.08501	mg/L	0.000588	0.08501	mg/L	0.000588	0.69%
Ni 231.604†	41.3	0.00255	mg/L	0.000224	0.00255	mg/L	0.000224	8.78%
Pb 220.353†	-9.9	-0.00188	mg/L	0.000258	-0.00188	mg/L	0.000258	13.73%
Sb 206.836†	-2.0	-0.00114	mg/L	0.003531	-0.00114	mg/L	0.003531	309.90%
Se 196.026†	-0.9	-0.00130	mg/L	0.005701	-0.00130	mg/L	0.005701	437.28%
Tl 190.801†	-0.1	-0.00007	mg/L	0.001472	-0.00007	mg/L	0.001472	>999.9%
V 292.402†	-3.3	-0.00003	mg/L	0.000307	-0.00003	mg/L	0.000307	887.22%
Zn 206.200†	172.8	0.00804	mg/L	0.000095	0.00804	mg/L	0.000095	1.18%
Cd 226.502†	2.0	0.00005	mg/L	0.000085	0.00005	mg/L	0.000085	164.11%
Ti 334.940†	-67.9	-0.00012	mg/L	0.000126	-0.00012	mg/L	0.000126	102.35%
Ca 227.546†	672.9	3.7746	mg/L	0.10324	3.7746	mg/L	0.10324	2.74%
Na 589.592	84676.3	27.570	mg/L	0.1188	27.570	mg/L	0.1188	0.43%
K 766.490	882.5	0.70065	mg/L	0.064703	0.70065	mg/L	0.064703	9.23%

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Sequence No.: 27 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 5/18/2011 12:44:30 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1045867.7	100.52	%	0.461				0.46%
Lu 261.542	1148891.2	100.4	%	0.63				0.63%
Ag 328.068†	135140.9	1.2537	mg/L	0.01432	1.2537	mg/L	0.01432	1.14%
QC value within limits for Ag 328.068 Recovery = 100.30%								
Al 308.215†	185772.9	10.120	mg/L	0.1215	10.120	mg/L	0.1215	1.20%
QC value within limits for Al 308.215 Recovery = 101.20%								
As 188.979†	630.1	0.48286	mg/L	0.005940	0.48286	mg/L	0.005940	1.23%
QC value within limits for As 188.979 Recovery = 96.57%								
Ba 233.527†	667361.1	10.150	mg/L	0.0089	10.150	mg/L	0.0089	0.09%
QC value within limits for Ba 233.527 Recovery = 101.50%								
Be 313.107†	298594.3	0.24465	mg/L	0.001038	0.24465	mg/L	0.001038	0.42%
QC value within limits for Be 313.107 Recovery = 97.86%								
Co 228.616†	36578.2	2.5145	mg/L	0.01088	2.5145	mg/L	0.01088	0.43%
QC value within limits for Co 228.616 Recovery = 100.58%								
Cr 267.716†	44969.4	1.0502	mg/L	0.01089	1.0502	mg/L	0.01089	1.04%
QC value within limits for Cr 267.716 Recovery = 105.02%								
Cu 324.752†	220537.9	1.2257	mg/L	0.01224	1.2257	mg/L	0.01224	1.00%
QC value within limits for Cu 324.752 Recovery = 98.06%								
Fe 273.955†	98210.8	5.1762	mg/L	0.04512	5.1762	mg/L	0.04512	0.87%
QC value within limits for Fe 273.955 Recovery = 103.52%								
Mg 279.077†	352948.2	24.942	mg/L	0.1974	24.942	mg/L	0.1974	0.79%
QC value within limits for Mg 279.077 Recovery = 99.77%								
Mn 257.610†	910110.2	2.4672	mg/L	0.00524	2.4672	mg/L	0.00524	0.21%
QC value within limits for Mn 257.610 Recovery = 98.69%								
Ni 231.604†	42725.5	2.6386	mg/L	0.03030	2.6386	mg/L	0.03030	1.15%
QC value within limits for Ni 231.604 Recovery = 105.54%								
Pb 220.353†	2647.3	0.50106	mg/L	0.002432	0.50106	mg/L	0.002432	0.49%
QC value within limits for Pb 220.353 Recovery = 100.21%								
Sb 206.836†	1009.7	0.48906	mg/L	0.003839	0.48906	mg/L	0.003839	0.78%
QC value within limits for Sb 206.836 Recovery = 97.81%								
Se 196.026†	404.6	0.50133	mg/L	0.004660	0.50133	mg/L	0.004660	0.93%

QC value within limits for Se 196.026 Recovery = 100.27%

Tl 190.801†	757.2	0.50590 mg/L	0.006142	0.50590 mg/L	0.006142	1.21%

QC value within limits for Tl 190.801 Recovery = 101.18%

V 292.402†	161708.9	2.5416 mg/L	0.02459	2.5416 mg/L	0.02459	0.97%

QC value within limits for V 292.402 Recovery = 101.66%

Zn 206.200†	53962.7	2.5074 mg/L	0.01663	2.5074 mg/L	0.01663	0.66%

QC value within limits for Zn 206.200 Recovery = 100.30%

Cd 226.502†	9700.7	0.24577 mg/L	0.001617	0.24577 mg/L	0.001617	0.66%

QC value within limits for Cd 226.502 Recovery = 98.31%

Ti 334.940†	211400.0	0.49718 mg/L	0.003295	0.49718 mg/L	0.003295	0.66%

QC value within limits for Ti 334.940 Recovery = Not calculated

Ca 227.546†	4537.5	25.564 mg/L	0.1232	25.564 mg/L	0.1232	0.48%

QC value within limits for Ca 227.546 Recovery = 102.25%

Na 589.592	81210.9	26.442 mg/L	0.3935	26.442 mg/L	0.3935	1.49%

QC value within limits for Na 589.592 Recovery = 105.77%

K 766.490	33280.6	26.424 mg/L	0.4000	26.424 mg/L	0.4000	1.51%

QC value within limits for K 766.490 Recovery = 105.70%

All analyte(s) passed QC.

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Sequence No.: 28 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 5/18/2011 12:48:11 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1088310.1	104.59	%	0.175				0.17%
Lu 261.542	1173154.0	102.5	%	0.34				0.33%
Ag 328.068†	96.3	0.00089	mg/L	0.000289	0.00089	mg/L	0.000289	32.37%
Al 308.215†	49.1	0.00268	mg/L	0.000875	0.00268	mg/L	0.000875	32.66%
As 188.979†	3.0	0.00229	mg/L	0.000833	0.00229	mg/L	0.000833	36.40%
Ba 233.527†	72.4	0.00110	mg/L	0.000197	0.00110	mg/L	0.000197	17.88%
Be 313.107†	85.2	0.00007	mg/L	0.000010	0.00007	mg/L	0.000010	15.02%
Co 228.616†	4.7	0.00032	mg/L	0.000141	0.00032	mg/L	0.000141	43.59%
Cr 267.716†	2.0	0.00005	mg/L	0.000101	0.00005	mg/L	0.000101	217.07%
Cu 324.752†	151.2	0.00084	mg/L	0.000198	0.00084	mg/L	0.000198	23.58%
Fe 273.955†	121.7	0.00632	mg/L	0.000531	0.00632	mg/L	0.000531	8.40%
Mg 279.077†	132.3	0.00934	mg/L	0.006581	0.00934	mg/L	0.006581	70.43%
Mn 257.610†	127.6	0.00035	mg/L	0.000070	0.00035	mg/L	0.000070	20.19%
Ni 231.604†	5.3	0.00033	mg/L	0.000172	0.00033	mg/L	0.000172	52.99%
Pb 220.353†	-6.4	-0.00120	mg/L	0.000199	-0.00120	mg/L	0.000199	16.56%
Sb 206.836†	8.5	0.00425	mg/L	0.001352	0.00425	mg/L	0.001352	31.81%
Se 196.026†	-2.3	-0.00284	mg/L	0.001647	-0.00284	mg/L	0.001647	58.06%
Tl 190.801†	2.6	0.00168	mg/L	0.001051	0.00168	mg/L	0.001051	62.40%
V 292.402†	11.0	0.00017	mg/L	0.000526	0.00017	mg/L	0.000526	304.48%
Zn 206.200†	29.4	0.00136	mg/L	0.000100	0.00136	mg/L	0.000100	7.33%
Cd 226.502†	2.9	0.00007	mg/L	0.000094	0.00007	mg/L	0.000094	128.29%
Ti 334.940†	41.6	0.00010	mg/L	0.000083	0.00010	mg/L	0.000083	85.36%
Ca 227.546†	-0.9	-0.00451	mg/L	0.051169	-0.00451	mg/L	0.051169	>999.9%
Na 589.592	219.0	0.07129	mg/L	0.008589	0.07129	mg/L	0.008589	12.05%
K 766.490	63.4	0.05032	mg/L	0.066970	0.05032	mg/L	0.066970	133.09%

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Sequence No.: 29 **Autosampler Location: 95**
Sample ID: K0834-12CPDS~SL-MW-4 **Date Collected: 5/18/2011 12:51:50 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0834-12CPDS~SL-MW-4

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1052053.0	101.11	%	1.914				1.89%
Lu 261.542	1155827.8	101.0	%	1.90				1.88%
Ag 328.068†	120746.2	1.1202	mg/L	0.01344	1.1202	mg/L	0.01344	1.20%
Al 308.215†	171126.3	9.3220	mg/L	0.14056	9.3220	mg/L	0.14056	1.51%

As 188.979†	600.8	0.46010	mg/L	0.012872	0.46010	mg/L	0.012872	2.80%
Ba 233.527†	606848.5	9.2294	mg/L	0.16000	9.2294	mg/L	0.16000	1.73%
Be 313.107†	276744.0	0.22584	mg/L	0.003031	0.22584	mg/L	0.003031	1.34%
Co 228.616†	32841.9	2.2581	mg/L	0.03551	2.2581	mg/L	0.03551	1.57%
Cr 267.716†	41526.6	0.96968	mg/L	0.013603	0.96968	mg/L	0.013603	1.40%
Cu 324.752†	204527.8	1.1367	mg/L	0.01612	1.1367	mg/L	0.01612	1.42%
Fe 273.955†	89231.2	4.7033	mg/L	0.06116	4.7033	mg/L	0.06116	1.30%
Mg 279.077†	363596.5	25.695	mg/L	0.4512	25.695	mg/L	0.4512	1.76%
Mn 257.610†	972962.0	2.6377	mg/L	0.04655	2.6377	mg/L	0.04655	1.76%
Ni 231.604†	39103.4	2.4151	mg/L	0.02938	2.4151	mg/L	0.02938	1.22%
Pb 220.353†	2398.7	0.45376	mg/L	0.011407	0.45376	mg/L	0.011407	2.51%
Sb 206.836†	892.9	0.43234	mg/L	0.013056	0.43234	mg/L	0.013056	3.02%
Se 196.026†	365.0	0.45154	mg/L	0.011773	0.45154	mg/L	0.011773	2.61%
Tl 190.801†	686.0	0.45514	mg/L	0.011819	0.45514	mg/L	0.011819	2.60%
V 292.402†	147658.4	2.3212	mg/L	0.03254	2.3212	mg/L	0.03254	1.40%
Zn 206.200†	49038.2	2.2786	mg/L	0.03351	2.2786	mg/L	0.03351	1.47%
Cd 226.502†	8787.5	0.22268	mg/L	0.002054	0.22268	mg/L	0.002054	0.92%
Ti 334.940†	76.3	0.00006	mg/L	0.000209	0.00006	mg/L	0.000209	347.10%
Ca 227.546†	7398.7	41.603	mg/L	1.2091	41.603	mg/L	1.2091	2.91%
Na 589.592	473968.8	154.32	mg/L	0.645	154.32	mg/L	0.645	0.42%
K 766.490	33426.7	26.540	mg/L	0.0991	26.540	mg/L	0.0991	0.37%

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Sequence No.: 30 **Autosampler Location: 96**
Sample ID: K0834-13C~SL-MW-6A **Date Collected: 5/18/2011 12:55:32 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0834-13C~SL-MW-6A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1092338.5	104.98	%	0.734				0.70%
Lu 261.542	1194576.4	104.4	%	0.46				0.44%
Ag 328.068†	83.2	0.00077	mg/L	0.000100	0.00077	mg/L	0.000100	12.99%
Al 308.215†	1401.4	0.07656	mg/L	0.000510	0.07656	mg/L	0.000510	0.67%
As 188.979†	3.5	0.00276	mg/L	0.002694	0.00276	mg/L	0.002694	97.54%
Ba 233.527†	465.6	0.00708	mg/L	0.000238	0.00708	mg/L	0.000238	3.37%
Be 313.107†	58.4	0.00005	mg/L	0.000031	0.00005	mg/L	0.000031	60.70%
Co 228.616†	11.8	0.00080	mg/L	0.000376	0.00080	mg/L	0.000376	47.11%
Cr 267.716†	548.6	0.01280	mg/L	0.000144	0.01280	mg/L	0.000144	1.13%
Cu 324.752†	3071.7	0.01707	mg/L	0.000130	0.01707	mg/L	0.000130	0.76%
Fe 273.955†	2258.8	0.11727	mg/L	0.001342	0.11727	mg/L	0.001342	1.14%
Mg 279.077†	13703.1	0.96810	mg/L	0.001368	0.96810	mg/L	0.001368	0.14%
Mn 257.610†	16037.0	0.04346	mg/L	0.000235	0.04346	mg/L	0.000235	0.54%
Ni 231.604†	510.7	0.03154	mg/L	0.000083	0.03154	mg/L	0.000083	0.26%
Pb 220.353†	14.4	0.00273	mg/L	0.000881	0.00273	mg/L	0.000881	32.26%
Sb 206.836†	9.6	0.00453	mg/L	0.001771	0.00453	mg/L	0.001771	39.12%
Se 196.026†	-2.1	-0.00277	mg/L	0.002850	-0.00277	mg/L	0.002850	102.92%
Tl 190.801†	-2.4	-0.00152	mg/L	0.000298	-0.00152	mg/L	0.000298	19.63%
V 292.402†	76.6	0.00123	mg/L	0.000206	0.00123	mg/L	0.000206	16.72%
Zn 206.200†	1186.6	0.05511	mg/L	0.000322	0.05511	mg/L	0.000322	0.59%
Cd 226.502†	20.2	0.00050	mg/L	0.000080	0.00050	mg/L	0.000080	15.83%
Ti 334.940†	645.2	0.00156	mg/L	0.000020	0.00156	mg/L	0.000020	1.30%
Ca 227.546†	814.3	4.5726	mg/L	0.08206	4.5726	mg/L	0.08206	1.79%
Na 589.592	190529.3	62.035	mg/L	0.9058	62.035	mg/L	0.9058	1.46%
K 766.490	2811.1	2.2320	mg/L	0.03159	2.2320	mg/L	0.03159	1.42%

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Sequence No.: 31 **Autosampler Location: 97**
Sample ID: K0834-14C~SL-MW-6B **Date Collected: 5/18/2011 12:59:12 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0834-14C~SL-MW-6B

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1082314.7	104.02	%	0.691				0.66%

Lu 261.542	1183238.3	103.4	%	0.89			0.86%
Ag 328.068†	76.9	0.00071	mg/L	0.000164	0.00071 mg/L	0.000164	23.08%
Al 308.215†	3057.7	0.16707	mg/L	0.009002	0.16707 mg/L	0.009002	5.39%
As 188.979†	2.9	0.00236	mg/L	0.002963	0.00236 mg/L	0.002963	125.62%
Ba 233.527†	1422.5	0.02163	mg/L	0.000225	0.02163 mg/L	0.000225	1.04%
Be 313.107†	87.2	0.00007	mg/L	0.000042	0.00007 mg/L	0.000042	59.69%
Co 228.616†	7.3	0.00050	mg/L	0.000170	0.00050 mg/L	0.000170	33.85%
Cr 267.716†	13.8	0.00031	mg/L	0.000118	0.00031 mg/L	0.000118	38.13%
Cu 324.752†	465.8	0.00258	mg/L	0.000060	0.00258 mg/L	0.000060	2.32%
Fe 273.955†	231.3	0.01199	mg/L	0.000345	0.01199 mg/L	0.000345	2.88%
Mg 279.077†	38167.7	2.6959	mg/L	0.04517	2.6959 mg/L	0.04517	1.68%
Mn 257.610†	2438.2	0.00653	mg/L	0.000115	0.00653 mg/L	0.000115	1.76%
Ni 231.604†	54.3	0.00335	mg/L	0.000140	0.00335 mg/L	0.000140	4.19%
Pb 220.353†	-2.0	-0.00034	mg/L	0.000342	-0.00034 mg/L	0.000342	101.39%
Sb 206.836†	6.6	0.00326	mg/L	0.000222	0.00326 mg/L	0.000222	6.83%
Se 196.026†	-4.8	-0.00650	mg/L	0.003268	-0.00650 mg/L	0.003268	50.26%
Tl 190.801†	-3.5	-0.00222	mg/L	0.003049	-0.00222 mg/L	0.003049	137.21%
V 292.402†	-19.3	-0.00030	mg/L	0.000312	-0.00030 mg/L	0.000312	103.58%
Zn 206.200†	446.4	0.02072	mg/L	0.000175	0.02072 mg/L	0.000175	0.85%
Cd 226.502†	4.7	0.00012	mg/L	0.000060	0.00012 mg/L	0.000060	51.13%
Ti 334.940†	-27.0	0.00012	mg/L	0.000058	0.00012 mg/L	0.000058	47.23%
Ca 227.546†	3175.7	17.813	mg/L	0.1063	17.813 mg/L	0.1063	0.60%
Na 589.592	59964.5	19.524	mg/L	0.2543	19.524 mg/L	0.2543	1.30%
K 766.490	2281.6	1.8115	mg/L	0.02546	1.8115 mg/L	0.02546	1.41%

Sequence No.: 32 **Autosampler Location: 98**
Sample ID: K0834-15C~SL-MW-5 **Date Collected: 5/18/2011 1:02:52 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0834-15C~SL-MW-5

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1106125.7	106.31	%	1.609				1.51%
Lu 261.542	1206811.3	105.5	%	1.46				1.39%
Ag 328.068†	59.2	0.00055	mg/L	0.000354	0.00055	mg/L	0.000354	64.77%
Al 308.215†	31.2	0.00173	mg/L	0.008504	0.00173	mg/L	0.008504	492.58%
As 188.979†	13.1	0.01158	mg/L	0.002931	0.01158	mg/L	0.002931	25.30%
Ba 233.527†	2192.5	0.03333	mg/L	0.000557	0.03333	mg/L	0.000557	1.67%
Be 313.107†	27.5	0.00002	mg/L	0.000030	0.00002	mg/L	0.000030	135.89%
Co 228.616†	273.5	0.01774	mg/L	0.000445	0.01774	mg/L	0.000445	2.51%
Cr 267.716†	-1.6	-0.00024	mg/L	0.000048	-0.00024	mg/L	0.000048	20.17%
Cu 324.752†	-15.6	0.00136	mg/L	0.000165	0.00136	mg/L	0.000165	12.12%
Fe 273.955†	598719.7	31.060	mg/L	0.0528	31.060	mg/L	0.0528	0.17%
Mg 279.077†	18924.4	1.3416	mg/L	0.02562	1.3416	mg/L	0.02562	1.91%
Mn 257.610†	370131.6	1.0035	mg/L	0.00401	1.0035	mg/L	0.00401	0.40%
Ni 231.604†	111.9	0.00670	mg/L	0.000462	0.00670	mg/L	0.000462	6.89%
Pb 220.353†	-3.9	-0.00082	mg/L	0.000989	-0.00082	mg/L	0.000989	120.03%
Sb 206.836†	3.0	0.00024	mg/L	0.000579	0.00024	mg/L	0.000579	240.21%
Se 196.026†	-5.0	0.00321	mg/L	0.006086	0.00321	mg/L	0.006086	189.41%
Tl 190.801†	-1.7	-0.00021	mg/L	0.001326	-0.00021	mg/L	0.001326	622.10%
V 292.402†	-106.3	0.00042	mg/L	0.000103	0.00042	mg/L	0.000103	24.55%
Zn 206.200†	355.1	0.01648	mg/L	0.000427	0.01648	mg/L	0.000427	2.59%
Cd 226.502†	116.3	0.00047	mg/L	0.000126	0.00047	mg/L	0.000126	26.82%
Ti 334.940†	8.1	0.00009	mg/L	0.000099	0.00009	mg/L	0.000099	115.44%
Ca 227.546†	1223.5	8.5242	mg/L	0.22837	8.5242	mg/L	0.22837	2.68%
Na 589.592	109411.7	35.624	mg/L	0.3682	35.624	mg/L	0.3682	1.03%
K 766.490	10720.7	8.5120	mg/L	0.16776	8.5120	mg/L	0.16776	1.97%

Sequence No.: 33 **Autosampler Location: 3**
Sample ID: CCV **Date Collected: 5/18/2011 1:06:34 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1075003.9	103.32	%	0.667				0.65%
Lu 261.542	1184737.4	103.6	%	0.93				0.89%
Ag 328.068†	131097.4	1.2162	mg/L	0.01561	1.2162	mg/L	0.01561	1.28%
QC value within limits for Ag 328.068 Recovery = 97.30%								
Al 308.215†	180027.7	9.8067	mg/L	0.11855	9.8067	mg/L	0.11855	1.21%
QC value within limits for Al 308.215 Recovery = 98.07%								
As 188.979†	602.8	0.46200	mg/L	0.005286	0.46200	mg/L	0.005286	1.14%
QC value within limits for As 188.979 Recovery = 92.40%								
Ba 233.527†	646801.2	9.8370	mg/L	0.02207	9.8370	mg/L	0.02207	0.22%
QC value within limits for Ba 233.527 Recovery = 98.37%								
Be 313.107†	287785.2	0.23580	mg/L	0.001119	0.23580	mg/L	0.001119	0.47%
QC value within limits for Be 313.107 Recovery = 94.32%								
Co 228.616†	35850.2	2.4644	mg/L	0.01692	2.4644	mg/L	0.01692	0.69%
QC value within limits for Co 228.616 Recovery = 98.58%								
Cr 267.716†	43573.0	1.0176	mg/L	0.01159	1.0176	mg/L	0.01159	1.14%
QC value within limits for Cr 267.716 Recovery = 101.76%								
Cu 324.752†	214490.9	1.1921	mg/L	0.01347	1.1921	mg/L	0.01347	1.13%
QC value within limits for Cu 324.752 Recovery = 95.37%								
Fe 273.955†	95746.9	5.0457	mg/L	0.05946	5.0457	mg/L	0.05946	1.18%
QC value within limits for Fe 273.955 Recovery = 100.91%								
Mg 279.077†	342977.9	24.237	mg/L	0.0784	24.237	mg/L	0.0784	0.32%
QC value within limits for Mg 279.077 Recovery = 96.95%								
Mn 257.610†	881381.3	2.3893	mg/L	0.00768	2.3893	mg/L	0.00768	0.32%
QC value within limits for Mn 257.610 Recovery = 95.57%								
Ni 231.604†	41474.2	2.5613	mg/L	0.04008	2.5613	mg/L	0.04008	1.56%
QC value within limits for Ni 231.604 Recovery = 102.45%								
Pb 220.353†	2541.3	0.48101	mg/L	0.004416	0.48101	mg/L	0.004416	0.92%
QC value within limits for Pb 220.353 Recovery = 96.20%								
Sb 206.836†	968.9	0.46912	mg/L	0.007461	0.46912	mg/L	0.007461	1.59%
QC value within limits for Sb 206.836 Recovery = 93.82%								
Se 196.026†	383.9	0.47566	mg/L	0.001261	0.47566	mg/L	0.001261	0.27%
QC value within limits for Se 196.026 Recovery = 95.13%								
Tl 190.801†	731.3	0.48866	mg/L	0.004793	0.48866	mg/L	0.004793	0.98%
QC value within limits for Tl 190.801 Recovery = 97.73%								
V 292.402†	156442.3	2.4588	mg/L	0.02991	2.4588	mg/L	0.02991	1.22%
QC value within limits for V 292.402 Recovery = 98.35%								
Zn 206.200†	52732.7	2.4502	mg/L	0.02333	2.4502	mg/L	0.02333	0.95%
QC value within limits for Zn 206.200 Recovery = 98.01%								
Cd 226.502†	9458.1	0.23963	mg/L	0.002768	0.23963	mg/L	0.002768	1.16%
QC value within limits for Cd 226.502 Recovery = 95.85%								
Ti 334.940†	205711.6	0.48380	mg/L	0.004603	0.48380	mg/L	0.004603	0.95%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Ca 227.546†	4341.8	24.464	mg/L	0.0758	24.464	mg/L	0.0758	0.31%
QC value within limits for Ca 227.546 Recovery = 97.86%								
Na 589.592	78687.6	25.620	mg/L	0.1916	25.620	mg/L	0.1916	0.75%
QC value within limits for Na 589.592 Recovery = 102.48%								
K 766.490	32357.4	25.691	mg/L	0.1589	25.691	mg/L	0.1589	0.62%
QC value within limits for K 766.490 Recovery = 102.76%								

All analyte(s) passed QC.

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Sequence No.: 34 **Autosampler Location: 4**
Sample ID: CCB **Date Collected: 5/18/2011 1:10:16 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	1078708.6	103.67	%	0.166				0.16%
Lu 261.542	1165499.1	101.9	%	0.17				0.17%
Ag 328.068†	98.3	0.00091	mg/L	0.000231	0.00091	mg/L	0.000231	25.38%
Al 308.215†	53.9	0.00294	mg/L	0.006177	0.00294	mg/L	0.006177	209.87%
As 188.979†	2.6	0.00199	mg/L	0.001388	0.00199	mg/L	0.001388	69.91%
Ba 233.527†	61.7	0.00094	mg/L	0.000259	0.00094	mg/L	0.000259	27.56%
Be 313.107†	11.3	0.00001	mg/L	0.000028	0.00001	mg/L	0.000028	292.64%
Co 228.616†	6.6	0.00045	mg/L	0.000211	0.00045	mg/L	0.000211	46.93%

Cr 267.716†	2.9	0.00007	mg/L	0.000109	0.00007	mg/L	0.000109 161.20%
Cu 324.752†	238.1	0.00132	mg/L	0.000155	0.00132	mg/L	0.000155 11.73%
Fe 273.955†	135.8	0.00705	mg/L	0.000107	0.00705	mg/L	0.000107 1.51%
Mg 279.077†	89.8	0.00634	mg/L	0.004051	0.00634	mg/L	0.004051 63.85%
Mn 257.610†	96.5	0.00026	mg/L	0.000080	0.00026	mg/L	0.000080 30.44%
Ni 231.604†	4.8	0.00029	mg/L	0.000360	0.00029	mg/L	0.000360 122.44%
Pb 220.353†	1.2	0.00023	mg/L	0.000539	0.00023	mg/L	0.000539 235.78%
Sb 206.836†	9.7	0.00483	mg/L	0.002714	0.00483	mg/L	0.002714 56.20%
Se 196.026†	-1.3	-0.00158	mg/L	0.007207	-0.00158	mg/L	0.007207 455.67%
Tl 190.801†	2.5	0.00167	mg/L	0.000527	0.00167	mg/L	0.000527 31.58%
V 292.402†	15.6	0.00024	mg/L	0.000484	0.00024	mg/L	0.000484 197.99%
Zn 206.200†	20.3	0.00094	mg/L	0.000288	0.00094	mg/L	0.000288 30.58%
Cd 226.502†	0.8	0.00002	mg/L	0.000160	0.00002	mg/L	0.000160 864.79%
Ti 334.940†	54.2	0.00013	mg/L	0.000145	0.00013	mg/L	0.000145 114.69%
Ca 227.546†	-6.0	-0.03317	mg/L	0.008855	-0.03317	mg/L	0.008855 26.70%
Na 589.592	175.0	0.05697	mg/L	0.016684	0.05697	mg/L	0.016684 29.29%
K 766.490	21.9	0.01741	mg/L	0.065213	0.01741	mg/L	0.065213 374.57%

Sequence No.: 35 **Autosampler Location: 99**
Sample ID: MB-59201~PBW **Date Collected: 5/18/2011 1:13:55 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: MB-59201~PBW

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	997660.5	95.883	%	0.3836				0.40%
Lu 261.542	1108434.9	96.88	%	0.590				0.61%
Ag 328.068†	26.2	0.00024	mg/L	0.000505	0.00024	mg/L	0.000505	208.70%
Al 308.215†	894.4	0.04887	mg/L	0.006462	0.04887	mg/L	0.006462	13.22%
As 188.979†	1.5	0.00113	mg/L	0.001974	0.00113	mg/L	0.001974	174.88%
Ba 233.527†	231.7	0.00352	mg/L	0.000080	0.00352	mg/L	0.000080	2.28%
Be 313.107†	4.6	0.00000	mg/L	0.000044	0.00000	mg/L	0.000044	>999.9%
Co 228.616†	1.1	0.00008	mg/L	0.000049	0.00008	mg/L	0.000049	65.46%
Cr 267.716†	23.5	0.00055	mg/L	0.000068	0.00055	mg/L	0.000068	12.52%
Cu 324.752†	617.6	0.00343	mg/L	0.000231	0.00343	mg/L	0.000231	6.72%
Fe 273.955†	1143.0	0.05929	mg/L	0.000647	0.05929	mg/L	0.000647	1.09%
Mg 279.077†	246.7	0.01746	mg/L	0.006687	0.01746	mg/L	0.006687	38.30%
Mn 257.610†	2425.5	0.00658	mg/L	0.000090	0.00658	mg/L	0.000090	1.37%
Ni 231.604†	33.2	0.00205	mg/L	0.000305	0.00205	mg/L	0.000305	14.87%
Pb 220.353†	24.4	0.00461	mg/L	0.001340	0.00461	mg/L	0.001340	29.07%
Sb 206.836†	10.2	0.00509	mg/L	0.000250	0.00509	mg/L	0.000250	4.91%
Se 196.026†	5.8	0.00716	mg/L	0.005511	0.00716	mg/L	0.005511	76.94%
Tl 190.801†	-6.7	-0.00443	mg/L	0.001363	-0.00443	mg/L	0.001363	30.78%
V 292.402†	-20.2	-0.00031	mg/L	0.000289	-0.00031	mg/L	0.000289	92.51%
Zn 206.200†	357.4	0.01659	mg/L	0.000227	0.01659	mg/L	0.000227	1.37%
Cd 226.502†	1.8	0.00004	mg/L	0.000059	0.00004	mg/L	0.000059	148.11%
Ti 334.940†	81.6	0.00019	mg/L	0.000130	0.00019	mg/L	0.000130	66.93%
Ca 227.546†	34.9	0.19881	mg/L	0.028051	0.19881	mg/L	0.028051	14.11%
Na 589.592	4636706.6	1509.7	mg/L	16.79	1509.7	mg/L	16.79	1.11%
Concentration greater than upper limit for Na 589.592.								
K 766.490	585.5	0.46488	mg/L	0.025327	0.46488	mg/L	0.025327	5.45%

Sequence No.: 36 **Autosampler Location: 100**
Sample ID: K0807-01A~DEC-066S (1-2' **Date Collected: 5/18/2011 1:17:42 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: K0807-01A~DEC-066S (1-2'

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	979823.2	94.168	%	0.5972				0.63%
Lu 261.542	1091062.9	95.36	%	0.861				0.90%
Ag 328.068†	19.6	0.00018	mg/L	0.000182	0.00018	mg/L	0.000182	101.03%
Al 308.215†	12754.1	0.69686	mg/L	0.013284	0.69686	mg/L	0.013284	1.91%

```
================================================================================
Method Name: comm hg
Method Description: Hg Analysis by Cold Vapor AA
Element: Hg

Date: 05/31/2011
Technique:FI-MHS
Calibration Type:
Hg, Zero Intercept: Linear
Wavelength: 253.7 nm
Sample Info Name: 59463M~1.SIF        Results Data Set Name: H11053101

================================================================================
Element: Hg    Seq. No.: 1        AS Loc.: 1   Date: 05/31/2011
Sample ID: S0
--------------------------------------------------------------------------------
Repl   SampleConc  StndConc   BlnkCorr  Peak    Peak      Time    Peak
 #     µg/L        µg/L       Signal    Area    Height            Stored
 1                            0.0000  -0.0021   0.0000   10:48:34 Yes
 2                            0.0001  -0.0007   0.0001   10:49:10 Yes
Mean:                         0.0000
SD  :                         0.0000
%RSD:                       134.3500
Auto-zero performed.

================================================================================
Element: Hg    Seq. No.: 2        AS Loc.: 2   Date: 05/31/2011
Sample ID: S0.2
--------------------------------------------------------------------------------
Repl   SampleConc  StndConc   BlnkCorr  Peak    Peak      Time    Peak
 #     µg/L        µg/L       Signal    Area    Height            Stored
 1                            0.0025   0.0167   0.0026   10:50:04 Yes
 2                            0.0026   0.0185   0.0026   10:50:38 Yes
Mean:                         0.0026
SD  :                         0.0001
%RSD:                         2.3871
[Hg] Standard number 1 applied. [0.200]
Correlation Coefficient:  1.00000              Slope: 0.01286

================================================================================
Element: Hg    Seq. No.: 3        AS Loc.: 3   Date: 05/31/2011
Sample ID: S1.0
--------------------------------------------------------------------------------
Repl   SampleConc  StndConc   BlnkCorr  Peak    Peak      Time    Peak
 #     µg/L        µg/L       Signal    Area    Height            Stored
 1                            0.0119   0.0810   0.0119   10:51:33 Yes
 2                            0.0119   0.0812   0.0120   10:52:07 Yes
Mean:                         0.0119
SD  :                         0.0000
%RSD:                         0.2467
[Hg] Standard number 2 applied. [1.000]
Correlation Coefficient:  0.99962              Slope: 0.01194

================================================================================
Element: Hg    Seq. No.: 4        AS Loc.: 4   Date: 05/31/2011
Sample ID: S2.0
--------------------------------------------------------------------------------
Repl   SampleConc  StndConc   BlnkCorr  Peak    Peak      Time    Peak
 #     µg/L        µg/L       Signal    Area    Height            Stored
 1                            0.0260   0.1768   0.0260   10:53:02 Yes
 2                            0.0260   0.1762   0.0261   10:53:36 Yes
Mean:                         0.0260
SD  :                         0.0000
%RSD:                         0.1876
[Hg] Standard number 3 applied. [2.000]
Correlation Coefficient:  0.99821              Slope: 0.01279
```

Element: Hg Seq. No.: 5 AS Loc.: 5 Date: 05/31/2011
Sample ID: S5.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0631	0.4298	0.0632	10:54:33	Yes
2			0.0626	0.4235	0.0626	10:55:07	Yes
Mean:			0.0628				
SD :			0.0004				
%RSD:			0.6352				

[Hg] Standard number 4 applied. [5.000]
Correlation Coefficient: 0.99973 Slope: 0.01261

Element: Hg Seq. No.: 6 AS Loc.: 6 Date: 05/31/2011
Sample ID: S10.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.1228	0.8394	0.1229	10:56:02	Yes
2			0.1225	0.8296	0.1225	10:56:36	Yes
Mean:			0.1227				
SD :			0.0002				
%RSD:			0.1896				

[Hg] Standard number 5 applied. [10.00]
Correlation Coefficient: 0.99981 Slope: 0.01235

Calibration data for Hg

Standard ID	Mean Signal (Pk Height)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
S0	0.0000	---	----	----	----
S0.2	0.0026	0.200	0.208	0.0001	2.4
S1.0	0.0119	1.000	0.964	0.0000	0.2
S2.0	0.0260	2.000	2.105	0.0000	0.2
S5.0	0.0628	5.000	5.090	0.0004	0.6
S10.0	0.1227	10.000	9.935	0.0002	0.2

Correlation Coefficient: 0.99981 Slope: 0.01235 ----

Element: Hg Seq. No.: 7 AS Loc.: 7 Date: 05/31/2011
Sample ID: ICV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.176	5.176	0.0639	0.4340	0.0639	10:57:31	Yes
2	5.195	5.195	0.0641	0.4355	0.0642	10:58:05	Yes
Mean:	5.185	5.185	0.0640				
SD :	0.0134	0.0134	0.0002				
%RSD:	0.3	0.3	0.2587				

QC value within specified limits.

Element: Hg Seq. No.: 8 AS Loc.: 1 Date: 05/31/2011
Sample ID: ICB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.011	0.011	0.0001	0.0015	0.0002	10:59:02	Yes
2	0.020	0.020	0.0003	0.0032	0.0003	10:59:36	Yes
Mean:	0.016	0.016	0.0002				
SD :	0.0064	0.0064	0.0001				
%RSD:	40.2	40.2	40.2199				

QC value within specified limits.

Element: Hg Seq. No.: 9 AS Loc.: 17 Date: 05/31/2011
Sample ID: MB-59463~BW

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.013	0.013	0.0002	0.0015	0.0002	11:00:32	Yes
2	0.018	0.018	0.0002	0.0026	0.0003	11:01:05	Yes
Mean:	0.016	0.016	0.0002				
SD :	0.0032	0.0032	0.0000				
%RSD:	20.4	20.4	20.4095				

Element: Hg Seq. No.: 10 AS Loc.: 18 Date: 05/31/2011
Sample ID: LCS-59463~LCS

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.970	5.970	0.0737	0.4988	0.0737	11:02:00	Yes
2	5.972	5.972	0.0737	0.4921	0.0738	11:02:34	Yes
Mean:	5.971	5.971	0.0737				
SD :	0.0016	0.0016	0.0000				
%RSD:							

Element: Hg Seq. No.: 11 AS Loc.: 19 Date: 05/31/2011
Sample ID: K0834-01B~SL-MW-12

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.066	0.066	0.0008	0.0050	0.0008	11:03:29	Yes
2	0.066	0.066	0.0008	0.0039	0.0008	11:04:03	Yes
Mean:	0.066	0.066	0.0008				
SD :	0.0004	0.0004	0.0000				
%RSD:	0.5	0.5	0.5460				

Element: Hg Seq. No.: 12 AS Loc.: 20 Date: 05/31/2011
Sample ID: K0834-02B~SL-MW-62

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.070	0.070	0.0009	0.0059	0.0009	11:04:58	Yes
2	0.066	0.066	0.0008	0.0044	0.0008	11:05:32	Yes
Mean:	0.068	0.068	0.0008				
SD :	0.0027	0.0027	0.0000				
%RSD:	3.9	3.9	3.8845				

Element: Hg Seq. No.: 13 AS Loc.: 21 Date: 05/31/2011
Sample ID: K0834-03B~SL-MW-13

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.117	0.117	0.0014	0.0082	0.0015	11:06:26	Yes
2	0.110	0.110	0.0014	0.0072	0.0014	11:07:00	Yes
Mean:	0.114	0.114	0.0014				
SD :	0.0047	0.0047	0.0001				
%RSD:	4.1	4.1	4.1208				

Element: Hg Seq. No.: 14 AS Loc.: 22 Date: 05/31/2011
Sample ID: K0834-05B~SL-MW-14

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.026	0.026	0.0003	0.0015	0.0004	11:07:54	Yes
2	0.010	0.010	0.0001	-0.0016	0.0002	11:08:28	Yes
Mean:	0.018	0.018	0.0002				

SD : 0.0115 0.0115 0.0001
%RSD: 63.4 63.4 63.4268

==========

Element: Hg Seq. No.: 15 AS Loc.: 23 Date: 05/31/2011
Sample ID: K0834-06B~SL-MW-23S

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.002	-0.002	0.0000	-0.0060	0.0000	11:09:22	Yes
2	0.002	0.002	0.0000	-0.0006	0.0001	11:09:56	Yes
Mean:	0.000	0.000	0.0000				
SD :	0.0028	0.0028	0.0000				
%RSD:	2485	2485	2485.2819				

==========

Element: Hg Seq. No.: 16 AS Loc.: 24 Date: 05/31/2011
Sample ID: K0834-07B~SL-MW-23D

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.005	-0.005	-0.0001	-0.0052	0.0000	11:10:51	Yes
2	0.000	0.000	0.0000	-0.0026	0.0000	11:11:25	Yes
Mean:	-0.002	-0.002	0.0000				
SD :	0.0039	0.0039	0.0000				
%RSD:	158.8	158.8	158.8335				

==========

Element: Hg Seq. No.: 17 AS Loc.: 25 Date: 05/31/2011
Sample ID: K0834-08B~SL-MW-16

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.019	0.019	0.0002	0.0015	0.0003	11:12:19	Yes
2	0.022	0.022	0.0003	0.0024	0.0003	11:12:53	Yes
Mean:	0.021	0.021	0.0003				
SD :	0.0027	0.0027	0.0000				
%RSD:	13.0	13.0	12.9606				

==========

Element: Hg Seq. No.: 18 AS Loc.: 26 Date: 05/31/2011
Sample ID: K0834-09B~SL-MW-2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.021	0.021	0.0003	0.0004	0.0003	11:13:47	Yes
2	0.037	0.037	0.0005	0.0046	0.0005	11:14:21	Yes
Mean:	0.029	0.029	0.0004				
SD :	0.0115	0.0115	0.0001				
%RSD:	39.1	39.1	39.1409				

==========

Element: Hg Seq. No.: 19 AS Loc.: 7 Date: 05/31/2011
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.270	5.270	0.0651	0.4382	0.0651	11:15:16	Yes
2	5.254	5.254	0.0649	0.4369	0.0649	11:15:50	Yes
Mean:	5.262	5.262	0.0650				
SD :	0.0114	0.0114	0.0001				
%RSD:	0.2	0.2	0.2172				

QC value within specified limits.

==========

Element: Hg Seq. No.: 20 AS Loc.: 1 Date: 05/31/2011
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.022	0.022	0.0003	0.0033	0.0003	11:16:47	Yes
2	0.017	0.017	0.0002	0.0022	0.0002	11:17:21	Yes
Mean:	0.020	0.020	0.0002				
SD :	0.0034	0.0034	0.0000				
%RSD:	17.4	17.4	17.3706				

QC value within specified limits.

Element: Hg Seq. No.: 21 AS Loc.: 27 Date: 05/31/2011
Sample ID: K0834-10B~SL-MW-3A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.146	0.146	0.0018	0.0112	0.0018	11:18:18	Yes
2	0.159	0.159	0.0020	0.0141	0.0020	11:18:53	Yes
Mean:	0.153	0.153	0.0019				
SD :	0.0089	0.0089	0.0001				
%RSD:	5.8	5.8	5.8009				

Element: Hg Seq. No.: 22 AS Loc.: 28 Date: 05/31/2011
Sample ID: K0834-11B~SL-MW-3B

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.057	0.057	0.0007	0.0047	0.0007	11:19:48	Yes
2	0.058	0.058	0.0007	0.0049	0.0008	11:20:21	Yes
Mean:	0.058	0.058	0.0007				
SD :	0.0010	0.0010	0.0000				
%RSD:	1.8	1.8	1.7662				

Element: Hg Seq. No.: 23 AS Loc.: 29 Date: 05/31/2011
Sample ID: K0834-12B~SL-MW-4

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.067	0.067	0.0008	0.0050	0.0009	11:21:15	Yes
2	0.058	0.058	0.0007	0.0036	0.0007	11:21:49	Yes
Mean:	0.062	0.062	0.0008				
SD :	0.0064	0.0064	0.0001				
%RSD:	10.2	10.2	10.1996				

Element: Hg Seq. No.: 24 AS Loc.: 30 Date: 05/31/2011
Sample ID: K0834-12BDUP~SL-MW-4D

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.077	0.077	0.0009	0.0076	0.0010	11:22:43	Yes
2	0.060	0.060	0.0007	0.0041	0.0008	11:23:17	Yes
Mean:	0.068	0.068	0.0008				
SD :	0.0116	0.0116	0.0001				
%RSD:	17.0	17.0	17.0158				

Element: Hg Seq. No.: 25 AS Loc.: 31 Date: 05/31/2011
Sample ID: K0834-12BMS~SL-MW-4S

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.824	5.824	0.0719	0.4866	0.0719	11:24:12	Yes
2	5.841	5.841	0.0721	0.4813	0.0721	11:24:46	Yes
Mean:	5.832	5.832	0.0720				

SD :	0.0118	0.0118	0.0001				
%RSD:	0.2	0.2	0.2029				

Element: Hg Seq. No.: 26 AS Loc.: 32 Date: 05/31/2011
Sample ID: K0834-13B~SL-MW-6A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.511	0.511	0.0063	0.0427	0.0063	11:25:48	Yes
2	0.505	0.505	0.0062	0.0416	0.0063	11:26:22	Yes
Mean:	0.508	0.508	0.0063				
SD :	0.0042	0.0042	0.0001				
%RSD:	0.8	0.8	0.8229				

Element: Hg Seq. No.: 27 AS Loc.: 33 Date: 05/31/2011
Sample ID: K0834-14B~SL-MW-6B

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.251	1.251	0.0154	0.1042	0.0155	11:27:15	Yes
2	1.250	1.250	0.0154	0.1050	0.0155	11:27:49	Yes
Mean:	1.251	1.251	0.0154				
SD :	0.0002	0.0002	0.0000				
%RSD:							

Element: Hg Seq. No.: 28 AS Loc.: 34 Date: 05/31/2011
Sample ID: K0834-15B~SL-MW-5

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.382	0.382	0.0047	0.0301	0.0047	11:28:44	Yes
2	0.400	0.400	0.0049	0.0323	0.0050	11:29:18	Yes
Mean:	0.391	0.391	0.0048				
SD :	0.0124	0.0124	0.0002				
%RSD:	3.2	3.2	3.1852				

Element: Hg Seq. No.: 29 AS Loc.: 35 Date: 05/31/2011
Sample ID: K0834-01C~SL-MW-12

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.003	-0.003	0.0000	-0.0020	0.0000	11:30:12	Yes
2	0.001	0.001	0.0000	-0.0032	0.0000	11:30:46	Yes
Mean:	-0.001	-0.001	0.0000				
SD :	0.0030	0.0030	0.0000				
%RSD:	229.1	229.1	229.0855				

Element: Hg Seq. No.: 30 AS Loc.: 36 Date: 05/31/2011
Sample ID: K0834-02C~SL-MW-62

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.004	-0.004	-0.0001	-0.0038	0.0000	11:31:41	Yes
2	0.000	0.000	0.0000	-0.0033	0.0000	11:32:15	Yes
Mean:	-0.002	-0.002	0.0000				
SD :	0.0026	0.0026	0.0000				
%RSD:	116.8	116.8	116.8359				

Element: Hg Seq. No.: 31 AS Loc.: 7 Date: 05/31/2011
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.285	5.285	0.0653	0.4368	0.0653	11:33:13	Yes
2	5.227	5.227	0.0645	0.4300	0.0646	11:33:47	Yes
Mean:	5.256	5.256	0.0649				
SD :	0.0410	0.0410	0.0005				
%RSD:	0.8	0.8	0.7804				

QC value within specified limits.

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Element: Hg Seq. No.: 32 AS Loc.: 1 Date: 05/31/2011
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.002	-0.002	0.0000	-0.0042	0.0000	11:34:45	Yes
2	0.010	0.010	0.0001	0.0007	0.0001	11:35:19	Yes
Mean:	0.004	0.004	0.0000				
SD :	0.0083	0.0083	0.0001				
%RSD:	225.5	225.5	225.5407				

QC value within specified limits.

==========

Element: Hg Seq. No.: 33 AS Loc.: 37 Date: 05/31/2011
Sample ID: K0834-03C~SL-MW-13

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.013	0.013	0.0002	0.0018	0.0002	11:36:15	Yes
2	0.012	0.012	0.0002	0.0019	0.0002	11:36:49	Yes
Mean:	0.013	0.013	0.0002				
SD :	0.0006	0.0006	0.0000				
%RSD:	5.0	5.0	5.0071				

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Element: Hg Seq. No.: 34 AS Loc.: 38 Date: 05/31/2011
Sample ID: K0834-05C~SL-MW-14

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.012	0.012	0.0002	0.0013	0.0002	11:37:44	Yes
2	0.006	0.006	0.0001	0.0007	0.0001	11:38:18	Yes
Mean:	0.009	0.009	0.0001				
SD :	0.0042	0.0042	0.0001				
%RSD:	45.5	45.5	45.5060				

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Element: Hg Seq. No.: 35 AS Loc.: 39 Date: 05/31/2011
Sample ID: MB-59464~MBW

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.001	0.001	0.0000	-0.0001	0.0000	11:39:25	Yes
2	0.011	0.011	0.0001	0.0019	0.0002	11:39:59	Yes
Mean:	0.006	0.006	0.0001				
SD :	0.0068	0.0068	0.0001				
%RSD:	112.2	112.2	112.1654				

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Element: Hg Seq. No.: 36 AS Loc.: 40 Date: 05/31/2011
Sample ID: LCS-59464~LCS

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.468	4.468	0.0552	0.3746	0.0552	11:40:52	Yes
2	4.451	4.451	0.0550	0.3685	0.0550	11:41:26	Yes
Mean:	4.460	4.460	0.0551				

SD :	0.0120	0.0120	0.0001
%RSD:	0.3	0.3	0.2687

Element: Hg Seq. No.: 37 AS Loc.: 41 Date: 05/31/2011
Sample ID: K0834-06C~SL-MW-23S

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.000	0.000	0.0000	-0.0014	0.0000	11:42:21	Yes
2	0.014	0.014	0.0002	0.0019	0.0002	11:42:55	Yes
Mean:	0.007	0.007	0.0001				
SD :	0.0101	0.0101	0.0001				
%RSD:	150.7	150.7	150.6987				

Element: Hg Seq. No.: 38 AS Loc.: 42 Date: 05/31/2011
Sample ID: K0834-07C~SL-MW-23D

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.015	0.015	0.0002	0.0022	0.0002	11:43:52	Yes
2	0.008	0.008	0.0001	0.0014	0.0001	11:44:26	Yes
Mean:	0.011	0.011	0.0001				
SD :	0.0047	0.0047	0.0001				
%RSD:	41.6	41.6	41.5731				

Element: Hg Seq. No.: 39 AS Loc.: 43 Date: 05/31/2011
Sample ID: K0834-08C~SL-MW-16

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.011	0.011	0.0001	0.0006	0.0002	11:45:20	Yes
2	-0.001	-0.001	0.0000	-0.0026	0.0000	11:45:54	Yes
Mean:	0.005	0.005	0.0001				
SD :	0.0086	0.0086	0.0001				
%RSD:	171.6	171.6	171.5582				

Element: Hg Seq. No.: 40 AS Loc.: 44 Date: 05/31/2011
Sample ID: K0834-09C~SL-MW-2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.013	0.013	0.0002	0.0019	0.0002	11:46:48	Yes
2	0.002	0.002	0.0000	-0.0002	0.0001	11:47:22	Yes
Mean:	0.008	0.008	0.0001				
SD :	0.0072	0.0072	0.0001				
%RSD:	94.8	94.8	94.8182				

Element: Hg Seq. No.: 41 AS Loc.: 45 Date: 05/31/2011
Sample ID: K0834-10C~SL-MW-3A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.009	0.009	0.0001	0.0010	0.0001	11:48:16	Yes
2	0.018	0.018	0.0002	0.0032	0.0003	11:48:50	Yes
Mean:	0.013	0.013	0.0002				
SD :	0.0066	0.0066	0.0001				
%RSD:	49.1	49.1	49.1429				

Element: Hg Seq. No.: 42 AS Loc.: 46 Date: 05/31/2011
Sample ID: K0834-11C~SL-MW-3B

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.001	0.001	0.0000	-0.0005	0.0000	11:49:45	Yes
2	0.014	0.014	0.0002	0.0014	0.0002	11:50:19	Yes
Mean:	0.008	0.008	0.0001				
SD :	0.0091	0.0091	0.0001				
%RSD:	120.6	120.6	120.5938				

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Element: Hg Seq. No.: 43 AS Loc.: 7 Date: 05/31/2011
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.206	5.206	0.0643	0.4375	0.0643	11:51:15	Yes
2	5.193	5.193	0.0641	0.4328	0.0642	11:51:49	Yes
Mean:	5.199	5.199	0.0642				
SD :	0.0088	0.0088	0.0001				
%RSD:	0.2	0.2	0.1689				

QC value within specified limits.

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Element: Hg Seq. No.: 44 AS Loc.: 1 Date: 05/31/2011
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.022	0.022	0.0003	0.0031	0.0003	11:52:46	Yes
2	0.020	0.020	0.0002	0.0029	0.0003	11:53:20	Yes
Mean:	0.021	0.021	0.0003				
SD :	0.0014	0.0014	0.0000				
%RSD:	6.7	6.7	6.6556				

QC value within specified limits.

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Element: Hg Seq. No.: 45 AS Loc.: 47 Date: 05/31/2011
Sample ID: K0834-12C~SL-MW-4

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.023	0.023	0.0003	0.0036	0.0003	11:54:19	Yes
2	0.019	0.019	0.0002	0.0030	0.0003	11:54:53	Yes
Mean:	0.021	0.021	0.0003				
SD :	0.0024	0.0024	0.0000				
%RSD:	11.3	11.3	11.2527				

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Element: Hg Seq. No.: 46 AS Loc.: 48 Date: 05/31/2011
Sample ID: K0834-12CDUP~SL-MW-4D

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.010	0.010	0.0001	0.0014	0.0002	11:55:51	Yes
2	0.013	0.013	0.0002	0.0015	0.0002	11:56:25	Yes
Mean:	0.012	0.012	0.0001				
SD :	0.0024	0.0024	0.0000				
%RSD:	20.6	20.6	20.5895				

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Element: Hg Seq. No.: 47 AS Loc.: 49 Date: 05/31/2011
Sample ID: K0834-12CMS~SL-MW-4S

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.033	5.033	0.0621	0.4243	0.0622	11:57:20	Yes
2	5.045	5.045	0.0623	0.4199	0.0623	11:57:54	Yes
Mean:	5.039	5.039	0.0622				

SD :	0.0086	0.0086	0.0001				
%RSD:	0.2	0.2	0.1711				

Element: Hg Seq. No.: 48 AS Loc.: 50 Date: 05/31/2011
Sample ID: K0834-13C~SL-MW-6A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.010	0.010	0.0001	0.0008	0.0002	11:58:49	Yes
2	0.007	0.007	0.0001	-0.0001	0.0001	11:59:23	Yes
Mean:	0.008	0.008	0.0001				
SD :	0.0021	0.0021	0.0000				
%RSD:	25.2	25.2	25.1917				

Element: Hg Seq. No.: 49 AS Loc.: 51 Date: 05/31/2011
Sample ID: K0834-14C~SL-MW-6B

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.001	-0.001	0.0000	-0.0015	0.0000	12:00:18	Yes
2	-0.001	-0.001	0.0000	-0.0034	0.0000	12:00:52	Yes
Mean:	-0.001	-0.001	0.0000				
SD :	0.0003	0.0003	0.0000				
%RSD:	31.6	31.6	31.5625				

Element: Hg Seq. No.: 50 AS Loc.: 52 Date: 05/31/2011
Sample ID: K0834-15C~SL-MW-5

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.002	-0.002	0.0000	-0.0026	0.0000	12:01:47	Yes
2	0.002	0.002	0.0000	-0.0010	0.0001	12:02:21	Yes
Mean:	0.000	0.000	0.0000				
SD :	0.0028	0.0028	0.0000				
%RSD:	951.6	951.6	951.6283				

Element: Hg Seq. No.: 51 AS Loc.: 53 Date: 05/31/2011
Sample ID: K0868-02D~A2-GW

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.837	0.837	0.0103	0.0707	0.0104	12:03:15	Yes
2	0.815	0.815	0.0101	0.0668	0.0101	12:03:49	Yes
Mean:	0.826	0.826	0.0102				
SD :	0.0157	0.0157	0.0002				
%RSD:	1.9	1.9	1.8979				

Element: Hg Seq. No.: 52 AS Loc.: 54 Date: 05/31/2011
Sample ID: K0868-03D~A3-GW

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.103	0.103	0.0013	0.0075	0.0013	12:04:43	Yes
2	0.113	0.113	0.0014	0.0102	0.0014	12:05:17	Yes
Mean:	0.108	0.108	0.0013				
SD :	0.0073	0.0073	0.0001				
%RSD:	6.8	6.8	6.7547				

Element: Hg Seq. No.: 53 AS Loc.: 55 Date: 05/31/2011
Sample ID: K0868-04D~A4-GW

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.116	0.116	0.0014	0.0098	0.0015	12:06:12	Yes
2	0.119	0.119	0.0015	0.0112	0.0015	12:06:46	Yes
Mean:	0.117	0.117	0.0014				
SD :	0.0026	0.0026	0.0000				
%RSD:	2.2	2.2	2.1781				

==========

Element: Hg Seq. No.: 54 AS Loc.: 56 Date: 05/31/2011
Sample ID: K0868-05E~B1-GW

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.063	0.063	0.0008	0.0051	0.0008	12:07:41	Yes
2	0.056	0.056	0.0007	0.0043	0.0007	12:08:15	Yes
Mean:	0.059	0.059	0.0007				
SD :	0.0045	0.0045	0.0001				
%RSD:	7.6	7.6	7.5553				

==========

Element: Hg Seq. No.: 55 AS Loc.: 7 Date: 05/31/2011
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.212	5.212	0.0644	0.4395	0.0644	12:09:11	Yes
2	5.206	5.206	0.0643	0.4370	0.0643	12:09:45	Yes
Mean:	5.209	5.209	0.0643				
SD :	0.0043	0.0043	0.0001				
%RSD:							

QC value within specified limits.

==========

Element: Hg Seq. No.: 56 AS Loc.: 1 Date: 05/31/2011
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.010	0.010	0.0001	0.0007	0.0002	12:10:42	Yes
2	0.026	0.026	0.0003	0.0032	0.0003	12:11:16	Yes
Mean:	0.018	0.018	0.0002				
SD :	0.0112	0.0112	0.0001				
%RSD:	62.4	62.4	62.3781				

QC value within specified limits.

==========

Element: Hg Seq. No.: 57 AS Loc.: 57 Date: 05/31/2011
Sample ID: K0868-06D~B2-GW

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.173	0.173	0.0021	0.0155	0.0022	12:12:14	Yes
2	0.148	0.148	0.0018	0.0109	0.0019	12:12:48	Yes
Mean:	0.160	0.160	0.0020				
SD :	0.0174	0.0174	0.0002				
%RSD:	10.8	10.8	10.8384				

==========

Element: Hg Seq. No.: 58 AS Loc.: 58 Date: 05/31/2011
Sample ID: K0868-07E~B3-GW

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.622	0.622	0.0077	0.0556	0.0077	12:13:42	Yes
2	0.610	0.610	0.0075	0.0514	0.0076	12:14:16	Yes
Mean:	0.616	0.616	0.0076				

SD : 0.0086 0.0086 0.0001
%RSD: 1.4 1.4 1.3893

==========

Element: Hg Seq. No.: 59 AS Loc.: 59 Date: 05/31/2011
Sample ID: K0906-01B~WG-7462-052311

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.022	0.022	0.0003	0.0027	0.0003	12:15:11	Yes
2	0.046	0.046	0.0006	0.0076	0.0006	12:15:45	Yes
Mean:	0.034	0.034	0.0004				
SD :	0.0167	0.0167	0.0002				
%RSD:	49.2	49.2	49.1896				

==========

Element: Hg Seq. No.: 60 AS Loc.: 60 Date: 05/31/2011
Sample ID: K0906-02B~WG-7462-052311

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.035	0.035	0.0004	0.0054	0.0005	12:16:40	Yes
2	0.013	0.013	0.0002	0.0011	0.0002	12:17:14	Yes
Mean:	0.024	0.024	0.0003				
SD :	0.0160	0.0160	0.0002				
%RSD:	66.6	66.6	66.6230				

==========

Element: Hg Seq. No.: 61 AS Loc.: 61 Date: 05/31/2011
Sample ID: K0906-03B~WG-7462-052311

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.048	0.048	0.0006	0.0058	0.0006	12:18:08	Yes
2	0.023	0.023	0.0003	0.0010	0.0003	12:18:42	Yes
Mean:	0.036	0.036	0.0004				
SD :	0.0175	0.0175	0.0002				
%RSD:	49.3	49.3	49.2631				

==========

Element: Hg Seq. No.: 62 AS Loc.: 62 Date: 05/31/2011
Sample ID: K0906-04B~WG-7462-052311

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.024	0.024	0.0003	0.0030	0.0003	12:19:36	Yes
2	0.010	0.010	0.0001	0.0007	0.0002	12:20:10	Yes
Mean:	0.017	0.017	0.0002				
SD :	0.0093	0.0093	0.0001				
%RSD:	54.4	54.4	54.3886				

==========

Element: Hg Seq. No.: 63 AS Loc.: 7 Date: 05/31/2011
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.175	5.175	0.0639	0.4391	0.0639	12:21:06	Yes
2	5.122	5.122	0.0632	0.4294	0.0633	12:21:40	Yes
Mean:	5.148	5.148	0.0636				
SD :	0.0379	0.0379	0.0005				
%RSD:	0.7	0.7	0.7367				

QC value within specified limits.

==========

Element: Hg Seq. No.: 64 AS Loc.: 1 Date: 05/31/2011
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.018	0.018	0.0002	0.0017	0.0003	12:22:37	Yes
2	0.013	0.013	0.0002	0.0003	0.0002	12:23:11	Yes
Mean:	0.016	0.016	0.0002				
SD :	0.0037	0.0037	0.0000				
%RSD:	23.8	23.8	23.7627				

QC value within specified limits.

Element: Hg Seq. No.: 65 AS Loc.: 7 Date: 05/31/2011
Sample ID: ICV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.021	5.021	0.0620	0.4438	0.0620	01:12:44	Yes
2	4.975	4.975	0.0614	0.4314	0.0615	01:13:18	Yes
Mean:	4.998	4.998	0.0617				
SD :	0.0329	0.0329	0.0004				
%RSD:	0.7	0.7	0.6582				

QC value within specified limits.

Element: Hg Seq. No.: 66 AS Loc.: 1 Date: 05/31/2011
Sample ID: ICB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.038	0.038	0.0005	0.0047	0.0005	01:14:15	Yes
2	0.018	0.018	0.0002	0.0017	0.0003	01:14:49	Yes
Mean:	0.028	0.028	0.0003				
SD :	0.0137	0.0137	0.0002				
%RSD:	48.8	48.8	48.7691				

QC value within specified limits.

Element: Hg Seq. No.: 67 AS Loc.: 18 Date: 05/31/2011
Sample ID: LCS-59463~LCS

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.913	4.913	0.0607	0.4272	0.0607	01:15:44	Yes
2	4.960	4.960	0.0612	0.4263	0.0613	01:16:18	Yes
Mean:	4.937	4.937	0.0610				
SD :	0.0334	0.0334	0.0004				
%RSD:	0.7	0.7	0.6764				

Element: Hg Seq. No.: 68 AS Loc.: 7 Date: 05/31/2011
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.041	5.041	0.0622	0.4321	0.0623	01:17:16	Yes
2	5.030	5.030	0.0621	0.4269	0.0621	01:17:50	Yes
Mean:	5.036	5.036	0.0622				
SD :	0.0079	0.0079	0.0001				
%RSD:	0.2	0.2	0.1577				

QC value within specified limits.

Element: Hg Seq. No.: 69 AS Loc.: 1 Date: 05/31/2011
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.009	0.009	0.0001	-0.0007	0.0001	01:18:47	Yes
2	0.018	0.018	0.0002	0.0018	0.0003	01:19:21	Yes
Mean:	0.013	0.013	0.0002				
SD :	0.0065	0.0065	0.0001				
%RSD:	48.5	48.5	48.5263				

QC value within specified limits.

Prep Logbooks

- [x] ICP
- [x] Mercury
- [ ] Cyanide
- [ ] Percent Solids

Start time: 11:35 – 15:35 **MITKEM LABORATORIES: Aqueous Metals Preparation Logbook**

Date	Sample ID		Client ID	Sample Vol (ml)	pH	Sample Color Before	Sample Clarity Before	Conc. HNO_3 (ml)	Conc.HCl (ml)	1:1 HCl (ml)	Sample Color After	Sample Clarity After	Final Volume (ml)	Comments
5/17/11	MB-59228		—	50	<2	—	—	1.0	2.5	—	—	—	50	
	LCS-59228			50									50	
	K0809	01A		50									50	TCLP
	K0807	02A		50									50	TCLP
	MB-59201			50									50	TCLP
	K0813	01B		50									50	
	K0814	01B		50									50	
	K0834	01B		50									50	
		02B		50									50	
		03B		50									50	
		~~04B~~ 05B		50									50	
		06B		50									50	
		~~06~~ 07B		50									50	
		08B		50									50	
		09B		50									50	
5/17/11	K0834	10B	—	50	<2	—	—	1.0	2.5	—	—	—	50	

AED 5/17/11

HCl Lot# 41100080

HNO3 Lot# 111011 0

Analyst: AED

Method#: 3005A

Hotblock ID: HB-B

Digestion Temp: TV=96 oC/ MT-92 CF=-1

LCS/Spike Lot # IP101223B 455 ml
IP100622A 45.5 ml
IP100622C 45.5 ml

Digestate Relinquished to: HZA

Reviewed By: HZA 5/18/11

Start time: 11:35 - 15:35 **MITKEM LABORATORIES: Aqueous Metals Preparation Logbook**

Date	Sample ID		Client ID	Sample Vol (ml)	pH	Sample Color Before	Sample Clarity Before	Conc. HNO_3 (ml)	Conc.HCl (ml)	1:1 HCl (ml)	Sample Color After	Sample Clarity After	Final Volume (ml)	Comments
5/17/11	K0834	11B	—	50	<2	—	—	1.0	2.5	—	—	—	50	
		12B		50									50	
		13B		50									50	
		14B		50									50	
	K0834	15B		50									50	
	K0834	12B DUP		50									50	
5/17/11	K0834	12B MS	—	50	<2	—	—	1.0	2.5	—	—	—	50	

AED 5/17/11

HCl Lot# 4110080

HNO3 Lot# 111011O

Analyst: AED

Method#: 3005A

Hotblock ID: HB-B

Digestion Temp: TV=96 oC/ MT-92 oF

LCS/Spike Lot # IP101223B 455 µl
IP100622A 45.5 µl
IP100622C 45.5 µl

Digestate Relinquished to: HZA

Reviewed By: HZA 5/18/11

Start time: 11:35 - 15:35 **MITKEM LABORATORIES: Aqueous Metals Preparation Logbook**

Date	Sample ID		Client ID	Sample Vol (ml)	pH	Sample Color Before	Sample Clarity Before	Conc. HNO_3 (ml)	Conc.H Cl (ml)	1:1 HCl (ml)	Sample Color After	Sample Clarity After	Final Volume (ml)	Comments
5/17/11	MB-59229		—	50	<2	—	—	1.0	2.5	—	—	—	50	
	LCS-59229			50									50	
	K0834	01C		50									50	
		02C		50									50	
		03C		50									50	
		05C		50									50	
		06C		50									50	
		07C		50									50	
		08C		50									50	
		09C		50									50	
		10C		50									50	
		11C		50									50	
		12C		50									50	
		12C DUP		50									50	
		12C MS		50									50	
5/17/11	K0834	13C	—	50	<2	—	—	1.0	2.5	—	—	—	50	

HCl Lot# 411080

HNO3 Lot# 111011O

Analyst: AED

Method#: 3005A

Hotblock ID: HB-5

Digestion Temp: TV=97 oC/ MT-95 oC

LCS/Spike Lot # IP101223B 45.5 mL
IP100622A 45.5 mL
IP100622C 45.5 mL

Digestate Relinquished to: HZA

398 Logbook ID 100.0125 -03/11

Reviewed By: HZA 5/18/11

Start time: 11:35-15:35 **MITKEM LABORATORIES: Aqueous Metals Preparation Logbook**

Date	Sample ID		Client ID	Sample Vol (ml)	pH	Sample Color Before	Sample Clarity Before	Conc. HNO_3 (ml)	Conc.H Cl (ml)	1:1 HCl (ml)	Sample Color After	Sample Clarity After	Final Volume (ml)	Comments
5/17/11	KO834	14C	—	50	<2	—	—	1.0	2.5	—	—	—	50	
5/17/11	KO834	15C	—	50	<2	—	—	1.0	2.5	—	—	—	50	
							AED 5/17/11							

HCl Lot# 4110080

HNO3 Lot# 1110110

Analyst: AED

Method#: 3005A

Hotblock ID: HB-5

Digestion Temp: TV=97oC/ MT-95 oC

LCS/Spike Lot # IP101223B 45.5 ml
IP100622A 45.5 ml
IP100622C 45.5 ml

Digestate Relinquished to: HZA

Logbook ID 100.0125 -03/11

Reviewed By: HZA 5/18/11

MITKEM LABORATORIES — Mercury Digestion Logbook K0834

Analyst: CJA

Date	Bottle No.	Sample ID		Initial pH	Reagents Added: Sample Vol (ml)/ Wt (g)	Conc. H_2SO_4 (ml)	Conc. HNO_3 (ml)	5% $KMnO_4$ (ml)	5% $K_2S_2O_8$ (ml)	Aqua-regia (ml)	Final Volume (ml)	Comments
5/28/11	20	S0		<2	–	5	2.5	15	8	–	100	
	AB1	S0.2			104/100						100	II 110527A
	302	S1.0			12/100						100	
	808	S2.0			14/100						100	
	4ID	S5.0			1/100						100	
	333	S10.0			2/100						106	II 110527A
	99	ICV			1/100						100	II 110516B
	14F	MB 59463			–						100	
	61	LCS59463			1/100						100	II 110516C
	216	K0834	01B		100						106	
	1315		~~016B~~		100						106	
	326X		~~023B~~		100						100	
	~~263~~		~~04B~~		5/28/11 CA							
	611		~~035B~~		100						100	
	C8		~~046B~~		100						100	
5/28/11	225	K0834	~~057B~~ 02		100	5	2.5	15	8	–	100	

5/28/11 CA

Waters
In: 9:00
Out: 11:00
Matrix: Aqueous
Method # SW7470A

Soils
In: ____ Out: ____
In: ____ Out: N/A
Matrix: Soil/Solid

Hotblock ID: HB-A
LCSS ID II 110516C
LCSS volume: 1ml
Spike ID II 110516C
Spike volume: 1mL

Temp: IV=96 °C/ MT- 47 Cf= 1
H_2SO_4 Lot # 3110020
HNO_3 Lot # 1110120
HCl Lot # –
KMnO4 ID # IR1105280I
K2S2O8 ID# IR1105280Z

Digestate Relinquished to: CJA 5/28/11

Reviewed by: AZA 5/31/11

400

Logbook ID: 100.0128 -05/11

MITKEM LABORATORIES — **Mercury Digestion Logbook**

Analyst: CJA

Date	Bottle No.	Sample ID	Initial pH	Sample Vol (ml)/ Wt (g)	Conc. H_2SO_4 (ml)	Conc. HNO_3 (ml)	5% $KMnO_4$ (ml)	5% $K_2S_2O_8$ (ml)	Aqua-regia (ml)	Final Volume (ml)	Comments
5/28/11	3	K0834- 04CDB	<2	100	5	25	15	8	—	100	
	13	05BDB		100						100	
	237	05C10B		100						100	
	115	06B11B		100						100	
	331B	06C12B		100						100	
	64	07B12B DUP		100						100	
	324	07C12B MS		100						100	
	68	08B13B		100						100	
	3130	08C14B		100						100	
	9	15B		100						100	
	3334	01C		100						100	
	330Δ	02C		100						100	
	G7	03C		100						100	
	~~324m~~	04C	5/25/11 CA								
	C5	K0834- 05C		100						100	
5/28/11	1327	MB59464	<2	100	5	2.5	15	8	—	100	

5/28/11 11 CJA

Waters
In: 9:00
Out: 11:00
Matrix: Aqueous
Method # SW7470A

Soils
In: _____ Out: _____
In: N/A Out: _____
Matrix: Soil/Solid

Hotblock ID: HB-2
LCSS ID _____
LCSS volume: _____
Spike ID _____
Spike volume: _____

Temp: TR=97 °C/ MT-99 CF=-2
H_2SO_4 Lot # _____
HNO_3 Lot # _____
HCl Lot # _____
KMnO4 ID # _____
K2S2O8 ID# _____

Digestate Relinquished to: CJA 5/28/11

Reviewed by: HZA 5/31/11

401

Logbook ID: 100.0128 -05/11

See pg 64

MITKEM LABORATORIES — **Mercury Digestion Logbook**

Analyst: CJA

Date	Bottle No.	Sample ID		Initial pH	Reagents Added: Sample Vol (ml)/ Wt (g)	Conc. H_2SO_4 (ml)	Conc. HNO_3 (ml)	5% $KMnO_4$ (ml)	5% $K_2S_2O_8$ (ml)	Aqua-regia (ml)	Final Volume (ml)	Comments
5/28/11	4	LCS 59464		<2	1/100	5	2.5	15	8	—	100	II105162
	157	KO834 -	06C		100						100	
	334/LT		07C		100						100	
	210		08C		100						100	
	21		09C		100						100	
	24		10C		100						100	
	22		11C		100						100	
	322*		12C		100						100	
	323V		12C DUP		100						100	
	10		12C MS		100						100	
	128N		13C		100						100	
	320		14C		100						100	
	335X	KO834 —	15C		100						100	
	22	KO868-	02D		100						100	
	196	↓	03D	↓	100	↓	↓	↓	↓	↓	100	
5/28/11	1334	KO868	04D	<2	100	5	2.5	15	8	—	100	

Waters
In: 9:00
Out: 11:00
Matrix: Aqueous
Method # SW7470A

Soils
In: _____ Out: _____
In: _____ Out: _____
Matrix: Soil/Solid

Hotblock ID: HC - C
LCSS ID _____
LCSS volume: _____
Spike ID _____
Spike volume: _____

Temp: TV = 100°C/ MT- 100 CF = -2
H_2SO_4 Lot # _____
HNO_3 Lot # _____
HCl Lot # _____
KMnO4 ID # _____
K2S2O8 ID# _____

Digestate Relinquished to: CJA 5/28/11

Reviewed by: HZA 5/31/11

See pg 64

Client: AECOM_CHSNTRDG

Work Order: K0834 **Profile Name:** MULTI_SITE

MATRIX **Aqueous**

Samp #	Bottle	Test	Status	Received	Date
01A	001	SW8260_W	In	LOGIN: sng	05/16/2011 10:08:00
01A	002	SW8260_W	In	LOGIN: sng	05/16/2011 10:08:00
01B	001	SW6010_W	In	LOGIN: sng	05/16/2011 10:08:00
01B	001	SW7470	In	LOGIN: sng	05/16/2011 10:08:00
01C	001	SW6010_W	In	LOGIN: sng	05/16/2011 10:08:00
01C	001	SW7470	In	LOGIN: sng	05/16/2011 10:08:00
02A	001	SW8260_W	In	LOGIN: sng	05/16/2011 10:08:00
02A	002	SW8260_W	In	LOGIN: sng	05/16/2011 10:08:00
02B	001	SW6010_W	In	LOGIN: sng	05/16/2011 10:08:00
02B	001	SW7470	In	LOGIN: sng	05/16/2011 10:08:00
02C	001	SW6010_W	In	LOGIN: sng	05/16/2011 10:08:00
02C	001	SW7470	In	LOGIN: sng	05/16/2011 10:08:00
03A	001	SW8260_W	In	LOGIN: sng	05/16/2011 10:08:00
03A	002	SW8260_W	In	LOGIN: sng	05/16/2011 10:08:00
03B	001	SW6010_W	In	LOGIN: sng	05/16/2011 10:08:00
03B	001	SW7470	In	LOGIN: sng	05/16/2011 10:08:00
03C	001	SW6010_W	In	LOGIN: sng	05/16/2011 10:08:00
03C	001	SW7470	In	LOGIN: sng	05/16/2011 10:08:00
04A	001	SW8260_W	In	LOGIN: sng	05/16/2011 10:08:00
04A	002	SW8260_W	In	LOGIN: sng	05/16/2011 10:08:00
05A	001	SW8260_W	In	LOGIN: sng	05/16/2011 10:08:00
05A	002	SW8260_W	In	LOGIN: sng	05/16/2011 10:08:00
05B	001	SW6010_W	In	LOGIN: sng	05/16/2011 10:08:00
05B	001	SW7470	In	LOGIN: sng	05/16/2011 10:08:00
05C	001	SW6010_W	In	LOGIN: sng	05/16/2011 10:08:00
05C	001	SW7470	In	LOGIN: sng	05/16/2011 10:08:00
06A	001	SW8260_W	In	LOGIN: sng	05/16/2011 10:08:00
06A	002	SW8260_W	In	LOGIN: sng	05/16/2011 10:08:00
06B	001	SW6010_W	In	LOGIN: sng	05/16/2011 10:08:00
06B	001	SW7470	In	LOGIN: sng	05/16/2011 10:08:00
06C	001	SW6010_W	In	LOGIN: sng	05/16/2011 10:08:00
06C	001	SW7470	In	LOGIN: sng	05/16/2011 10:08:00

Client: AECOM_CHSNTRDG

Work Order: K0834 **Profile Name:** MULTI_SITE

MATRIX **Aqueous**

Samp #	Bottle	Test	Status	Received	Date
07A	001	SW8260_W	In	LOGIN: sng	05/16/2011 10:08:00
07A	002	SW8260_W	In	LOGIN: sng	05/16/2011 10:08:00
07B	001	SW6010_W	In	LOGIN: sng	05/16/2011 10:08:00
07B	001	SW7470	In	LOGIN: sng	05/16/2011 10:08:00
07C	001	SW6010_W	In	LOGIN: sng	05/16/2011 10:08:00
07C	001	SW7470	In	LOGIN: sng	05/16/2011 10:08:00
08A	001	SW8260_W	In	LOGIN: sng	05/16/2011 10:08:00
08A	002	SW8260_W	In	LOGIN: sng	05/16/2011 10:08:00
08B	001	SW6010_W	In	LOGIN: sng	05/16/2011 10:08:00
08B	001	SW7470	In	LOGIN: sng	05/16/2011 10:08:00
08C	001	SW6010_W	In	LOGIN: sng	05/16/2011 10:08:00
08C	001	SW7470	In	LOGIN: sng	05/16/2011 10:08:00
09A	001	SW8260_W	In	LOGIN: sng	05/16/2011 10:08:00
09A	002	SW8260_W	In	LOGIN: sng	05/16/2011 10:08:00
09B	001	SW6010_W	In	LOGIN: sng	05/16/2011 10:08:00
09B	001	SW7470	In	LOGIN: sng	05/16/2011 10:08:00
09C	001	SW6010_W	In	LOGIN: sng	05/16/2011 10:08:00
09C	001	SW7470	In	LOGIN: sng	05/16/2011 10:08:00
10A	001	SW8260_W	In	LOGIN: sng	05/16/2011 10:08:00
10A	002	SW8260_W	In	LOGIN: sng	05/16/2011 10:08:00
10B	001	SW6010_W	In	LOGIN: sng	05/16/2011 10:08:00
10B	001	SW7470	In	LOGIN: sng	05/16/2011 10:08:00
10C	001	SW6010_W	In	LOGIN: sng	05/16/2011 10:08:00
10C	001	SW7470	In	LOGIN: sng	05/16/2011 10:08:00
11A	001	SW8260_W	In	LOGIN: sng	05/16/2011 10:08:00
11A	002	SW8260_W	In	LOGIN: sng	05/16/2011 10:08:00
11B	001	SW6010_W	In	LOGIN: sng	05/16/2011 10:08:00
11B	001	SW7470	In	LOGIN: sng	05/16/2011 10:08:00
11C	001	SW6010_W	In	LOGIN: sng	05/16/2011 10:08:00
11C	001	SW7470	In	LOGIN: sng	05/16/2011 10:08:00

Client: AECOM_CHSNTRDG

Work Order: K0834 **Profile Name:** MULTI_SITE

MATRIX **Aqueous**

Samp #	Bottle	Test	Status	Received	Date
12A	001	SW8260_W	In	LOGIN: sng	05/16/2011 10:08:00
12A	002	SW8260_W	In	LOGIN: sng	05/16/2011 10:08:00
12A	003	SW8260_W	In	LOGIN: sng	05/16/2011 10:08:00
12A	004	SW8260_W	In	LOGIN: sng	05/16/2011 10:08:00
12B	001	SW6010_W	In	LOGIN: sng	05/16/2011 10:08:00
12B	001	SW7470	In	LOGIN: sng	05/16/2011 10:08:00
12B	002	SW6010_W	In	LOGIN: sng	05/16/2011 10:08:00
12B	002	SW7470	In	LOGIN: sng	05/16/2011 10:08:00
12C	001	SW6010_W	In	LOGIN: sng	05/16/2011 10:08:00
12C	001	SW7470	In	LOGIN: sng	05/16/2011 10:08:00
12C	002	SW6010_W	In	LOGIN: sng	05/16/2011 10:08:00
12C	002	SW7470	In	LOGIN: sng	05/16/2011 10:08:00
13A	001	SW8260_W	In	LOGIN: sng	05/16/2011 10:08:00
13A	002	SW8260_W	In	LOGIN: sng	05/16/2011 10:08:00
13B	001	SW6010_W	In	LOGIN: sng	05/16/2011 10:08:00
13B	001	SW7470	In	LOGIN: sng	05/16/2011 10:08:00
13C	001	SW6010_W	In	LOGIN: sng	05/16/2011 10:08:00
13C	001	SW7470	In	LOGIN: sng	05/16/2011 10:08:00
14A	001	SW8260_W	In	LOGIN: sng	05/16/2011 10:08:00
14A	002	SW8260_W	In	LOGIN: sng	05/16/2011 10:08:00
14B	001	SW6010_W	In	LOGIN: sng	05/16/2011 10:08:00
14B	001	SW7470	In	LOGIN: sng	05/16/2011 10:08:00
14C	001	SW6010_W	In	LOGIN: sng	05/16/2011 10:08:00
14C	001	SW7470	In	LOGIN: sng	05/16/2011 10:08:00
15A	001	SW8260_W	In	LOGIN: sng	05/16/2011 10:08:00
15A	002	SW8260_W	In	LOGIN: sng	05/16/2011 10:08:00
15B	001	SW6010_W	In	LOGIN: sng	05/16/2011 10:08:00
15B	001	SW7470	In	LOGIN: sng	05/16/2011 10:08:00
15C	001	SW6010_W	In	LOGIN: sng	05/16/2011 10:08:00
15C	001	SW7470	In	LOGIN: sng	05/16/2011 10:08:00

Last Page of Data Report